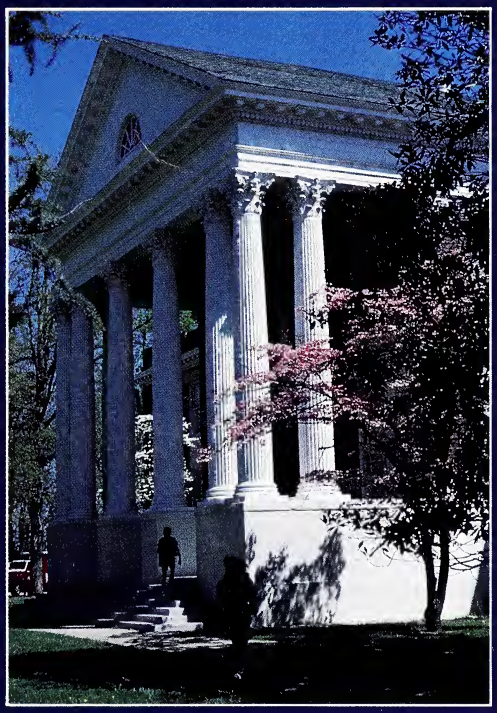
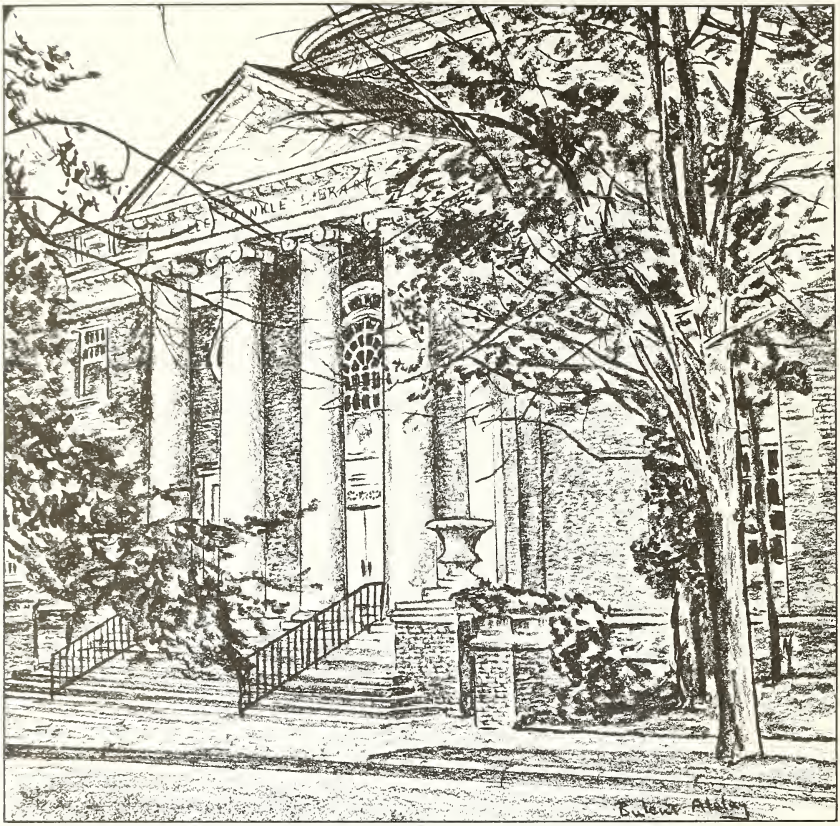


Mary Washington College

1986-1987 Academic Catalog



Mary Washington College is accredited by the Southern Association of Colleges and Schools.

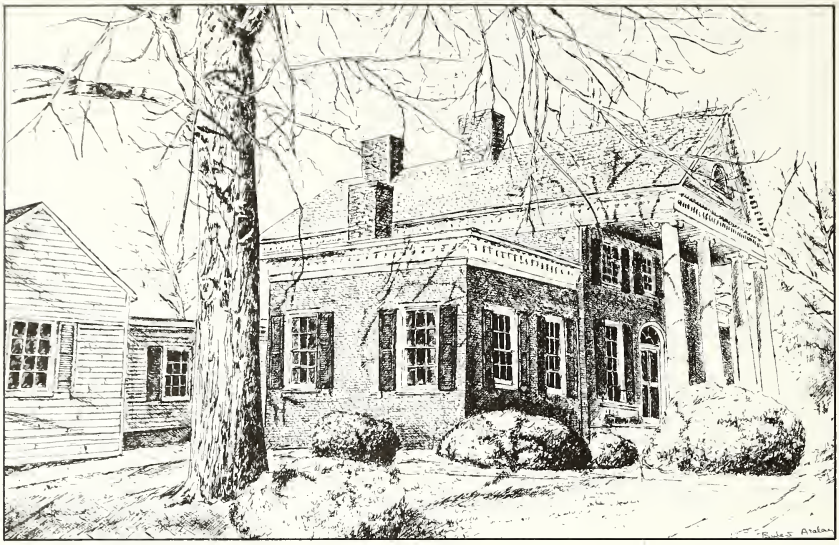
Mary Washington College does not discriminate in recruiting, admitting, or enrolling students on the basis of race, color, religion, physical disability, national origin, political affiliation, marital status, sex, or age. Questions should be directed to the Executive Vice President and AAEEO Officer, Mary Washington College, Fredericksburg, Virginia 22401.

Mary Washington College provides disabled members of the college community an opportunity to participate in campus activities and programs. To fulfill this responsibility, the College will keep present and future students, faculty, and staff informed of how to take advantage of accessible locations and be available to bring about resolution, if possible, wherever accessibility problems occur. For more information contact the Office of the Executive Vice President, Room 15, George Washington Hall, (703) 899-4368.

The academic catalog of Mary Washington College includes the official announcements of academic programs and policies. Students are responsible for knowledge of information contained therein. Although the listing of courses in this catalog is meant to indicate the content and scope of the curriculum, changes may be necessary and the actual offerings in any term may need to differ from prior announcements. The provisions of the catalog are not to be regarded as an irrevocable contract between the student and the College. Programs and policies are subject to change from time to time in accord with the procedures established by the faculty and administration of the College.

Contents

The College 4
Admission 6
Fees and Assistance 13
Services and Activities 30
Undergraduate Programs 35
Degrees 35
Policies and Procedures 45
Academic Departments and Courses of Study 52
Art 53
Biological Sciences 58
Business Administration 64
Chemistry, Geology, and Physics 67
Classics, Philosophy, and Religion 74
Dramatic Arts and Dance 81
Economics 86
Education 89
English, Linguistics, and Speech 92
Geography 98
Health and Physical Education 102
Historic Preservation 105
History and American Studies 108
Library Science 113
Mathematics and Computer Science 114
Modern Foreign Languages 119
Music 126
Political Science and International Affairs 132
Psychology 136
Sociology and Anthropology 139
Special Programs 144
Recognition of Student Achievement 147
Recognition of Faculty Achievement 150
The Graduate Program 151
Directory 158
Calendar 180
Index 182
Map 185



THE COLLEGE

Mary Washington College is a coeducational, state-supported, liberal arts college in Virginia.

Founded in 1908, the College opened its doors in 1911 as the Fredericksburg Normal and Industrial School for Women. It later evolved into a college of liberal arts and sciences, and in 1944 affiliated with the University of Virginia as its women's undergraduate liberal arts college. In 1970 the College became coeducational, and in 1972, by action of the General Assembly of Virginia, the College became an independent, state-supported institution with its own governing board.

Today the College is primarily an undergraduate institution with the large majority of its students living on campus. Its limited graduate offering is designed for part-time, commuting students. With its emphasis on quality, Mary Washington attracts students from all areas of Virginia, particularly the urban areas of Northern Virginia, Richmond, and Tidewater. In addition, approximately 25 percent of its dormitory students are from other states and foreign countries, with the largest proportion coming from Southern, Middle Atlantic, and New England states. Located in the middle of a rapidly growing Washington-Richmond "urban corridor," Mary Washington serves the educational needs of both full-time and part-time commuting students through the use of its resources in the evenings and on weekends.

The College is organized into academic departments of one or more disciplines and offers 35 undergraduate programs in the liberal arts and sciences, and compatible professional fields leading to the degrees of Bachelor of Arts, Bachelor of Science, Bachelor of Science in Medical Technology, and Bachelor of Liberal Studies. It also offers an interdisciplinary graduate degree, the Master of Arts in Liberal Studies, as well as the Master of Business Administration.

Purpose of the Institution

Mary Washington has historically focused on the liberal arts and sciences and has pursued academic excellence as the core of its value system. This commitment to excellence and liberal learning will continue in the years ahead.

Believing that a broad liberal education based upon freedom of inquiry, personal responsibility, and intellectual integrity is the best preparation for citizenship and career, the College requires its undergraduates to pursue studies in the arts, the humanities, and the sciences as a necessary supplement to their concentration in a particular field of interest.

As a small, predominantly residential, undergraduate institution of the liberal arts and sciences, Mary Washington is distinctive within the Virginia system of higher education, providing a low-cost, small-college alternative to qualified students.

Mary Washington is sensitive to the educational needs of the citizens within its commuting region and has established undergraduate and graduate degree programs designed especially for adult part-time students. The College will continue to assess its full-time and part-time offerings and when needed, propose curriculum changes to fulfill its continuing educational commitment to the population within the area.

Extent of the Institution's Mix of Instruction, Research, and Public Service

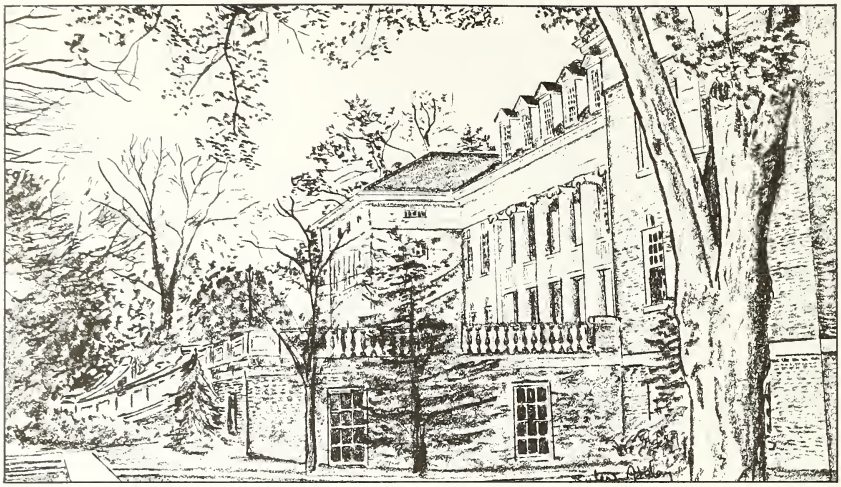
The College has adopted as its most pervasive and important function the provision of instruction of the highest quality. The goal of that instruction is to offer students learning opportunities that will provide them with a sound general education, sensitize them to their responsibility as citizens in the broader community, offer them the means to achieve the highest possible degree of self-realization, and enable them to develop the skills and abilities necessary for life-long learning, productive and creative lives, and successful careers.

The College encourages individual and departmental research necessary to support the teaching processes and the undergraduate and graduate academic programs of the institution.

Mary Washington's public and community activities, offered on-and-off-campus, provide citizens with continuing educational opportunities and assist in meeting special community needs. The College's new *Center for Historic Preservation*, designed to support the undergraduate degree program in historic preservation and to provide specialized services to preservation organizations and interested individuals, is unique within Virginia and the region.

The Institution's Future Directions to 1990

In the decade of the 1980's as the College evaluates its offerings, it will build upon its high-quality liberal arts and science programs and propose curricular additions specifically designed to meet new and increased demands. Mary Washington will continue to emphasize residential undergraduate liberal education and will also offer, within the liberal arts context, a limited number of compatible undergraduate and master's level programs designed primarily for commuting students.



ADMISSION

Mary Washington College takes a personal approach to admissions. Each admissions application is discussed and weighed along with other information provided. Supporting information about each candidate is helpful in the selection process. The admissions office is open for visits and is willing to answer questions and provide information about any aspect of college life.

Mary Washington College does not discriminate in recruiting, admitting, or enrolling students on the basis of race, color, religion, physical disability, national origin, political affiliation, marital status, sex, or age. Questions may be directed to the AAEEO Officer, Mary Washington College.

Admissions as a Degree-Seeking Student

To be admitted as a degree-seeking student, an individual must submit an application and transcripts from all secondary schools and colleges attended. This application, along with information furnished by the secondary school and results of The College Board Scholastic Aptitude Test, is reviewed by the Committee on Admissions. The Committee decides whether or not the applicant is admitted as a degree-seeking student at Mary Washington College.

A degree-seeking student may be full-time or part-time. This is determined at the time the student registers for classes and depends upon the number of hours carried for credit. Generally, to qualify for full-time status, a regular student must register for 12 or more credit hours. To maintain full-time student status yet register for fewer than 12 credit hours, a regular student must apply to the Vice President for Academic Affairs and the Dean of Students. They may allow full-time status for reasons of health, academic performance, service as President of the Honor Council or President of the Student Association, or other special circumstances. Students receiving this permission pay the tuition and fees of a regular student with full-time status.

During the semester, a regular full-time student may, without permission, drop below a course load of 12 credit hours and become a part-time student. In such cases, however, the student will receive no remission of fees nor may the student live in college housing without permission from the Associate Dean of Academic Services. Students receiving financial assistance must consult with the Vice President for Admissions and Financial Aid concerning the consequences of dropping below a course load of 12 credit hours.

A person admitted as a degree-seeking student remains such until graduation from Mary Washington College. After admittance, a degree-seeking student cannot become a special student.

Admission as a Special Student

Most often, special students desire not a degree from Mary Washington College but only specific courses. They are high school or college graduates or even students at other institutions who wish to earn credits to transfer to their own institutions.

Special students complete an abbreviated application form, and the Associate Dean for Academic Services makes the decision on the admission of these students. Admission as a special student is open policy as long as the student's prior record appears satisfactory. A student denied regular admission to the College will not be considered for admission as a special student until one year after the denial. Admission as a special student is not admission to a degree program of the College.

Publicity and details regarding the registration of special students will precede the registration date. Although a special student may apply at any time up to the first day of class, the college strongly recommends that the application and other necessary documents be filled out during registration.

For a semester, special students typically register for eleven or fewer credits, and they pay by the number of credits attempted. Classes open to special students are ones with space available and for which prerequisites are met. A special student can seek permission of the Associate Dean for Academic Services to be a full-time special student. Certain criteria must be met for permission to be granted. Full-time special students must be college graduates seeking certification in education or a similar field, college students permitted to take a full program of study to transfer to a degree program at their parent institution, or students taking a full program to qualify for graduate or professional school admission.

Admission Directly After High School

A student who intends to enter Mary Washington directly after graduating from high school should request application materials from the Vice President for Admissions and Financial Aid early in the first semester of the senior year. Students applying under the Early Decision Plan should also request the Early Decision Agreement form.

The application should be returned as soon as convenient. The transcript form must be completed and returned by the appropriate high school official. If the scores earned on the Scholastic Aptitude and Achievement Tests have not already been sent to the College, the applicant should request The College Board to send them directly to Mary Washington.

The Admissions Office recommends that applications be submitted by

March 1. All applicants who meet this deadline will be notified of the decisions of the Committee on Admissions by April 1. All acceptances are conditional upon the student's second semester performance.

A student who applies after the suggested March 1 deadline follows the same procedure. These applications, however, will be considered on a space-available basis. In these cases, the Committee announces its decision as soon as possible after materials have been received.

Application Fee. With the initial application, a student must send a $20 non-refundable application fee or ask a high school guidance counselor to approve an official fee-waiver form.

Early Decision Plan. The student who has selected Mary Washington College as a first choice may wish to apply for admission under the Early Decision Plan. Under this plan the student, if extended an offer of admission by the Committee, agrees to accept the offer. The College, in return, agrees to announce its decision by December 1.

Interested candidates should request an Early Decision form, along with regular application materials, early in the fall semester of their senior year. The candidate may apply to other colleges but must agree to withdraw those applications if notified of acceptance by Mary Washington.

The application form, the Early Decision form, the transcript, and results of the Scholastic Aptitude Test should be submitted to the College before November 1. The Committee on Admissions will review the materials and notify the applicant by December 1.

Should the Committee not act favorably on an early decision request, the applicant's file will remain active, and the Committee will reconsider it after the candidate submits additional grades and/or scores at the end of the fall semester.

High School Preparation. For admission to Mary Washington, the applicant must have graduated from an accredited secondary school or the equivalent and must have credit for at least sixteen academic courses. The credits must include an emphasis in college preparatory work. The Committee on Admissions pays careful attention to the quantity and quality of the applicant's college preparatory curriculum.

Although the College does not require specific courses for admission, successful applicants usually have completed sixteen academic credits as a minimum, including the following program of studies: four years of English, three years of mathematics (including Algebra II), one or more years of laboratory science and of social studies, and at least two years of foreign language. In addition to the sixteen academic courses, elective credits earned in subjects such as art, music, drama, and journalism will also be considered.

The Committee on Admissions believes that the senior year is extremely important, and that such basic academic subjects as English, mathematics, laboratory sciences, and foreign language should be continued through the final term.

Examinations. Students entering directly from high school must take the Scholastic Aptitude Test of The College Board and request that the results be sent to the College. The SAT should be taken no later than January in the senior year. If the test is taken after that date, the applicant will be con-

sidered only if space is available when the score is received.

The college strongly recommends, but does not require, that applicants submit achievement test scores. Students wanting exemption from the College competence requirement in English composition must take the English Composition Achievement Test. Achievement test scores in foreign language may be submitted for placement.

Information about the tests may be obtained from the College Board Admissions Testing Program, Princeton, New Jersey 08541, or from secondary school counselors. When making application for the tests, the student should specify that the results be sent to Mary Washington College (College Code Number 5398).

Character, Personality, and Interests. In addition to the scholastic record, recommendations from appropriate school officials are welcomed. Such recommendations should include an assessment of academic potential as well as character, personality, and interests. Activities that reflect leadership or intellectual interests are considered significant if they reinforce sound academic achievement. Since Mary Washington operates under a successful honor system, assurance of personal integrity is indispensable.

Committee Review. The Committee on Admissions at MWC weighs five different aspects of each applicant's record. First, it considers the applicant's secondary school record. This document records courses that have been taken and the applicant's achievement in these courses. Second, the Committee weighs an applicant's rank in class in secondary school. The committee knows that secondary schools differ, and it considers an applicant's rank in class in light of the particular aspects of the school. Third, the Committee reviews all information sent from the secondary school in support of the applicant's record and performance at that school. Fourth, it considers standardized testing: the Scholastic Aptitude Test, the achievement tests, and any other national test scores which might be sent. Finally, the committee considers all other aspects of the applicant's record. It is aware that every applicant has talents, abilities, strengths, and weaknesses which differ from those of any other applicant. After careful consideration of these five factors, the committee makes the decision which it feels is best for the applicant.

Applicants should understand that the college offers admission to a range of applicants. Accepted students generally rank in the top third of the class. Their SAT scores typically total over 1000, and scores for 80 percent of the class are between 900 and 1300.

Admissions Deposit. Students accepted by the College send an answer and a deposit—residence hall students a $200 deposit, commuting students a $100 deposit. Students who are accepted by April 1 must answer and send the deposit by May 1. If, for late applications, the letter of acceptance is received after May 1, the deposit is due within two weeks. The deposit applies to the first semester charges. Unless the student has asked for Early Decision, the deposit is refundable upon request until May 1. If the student is accepted for the spring semester, the deposit is refundable upon request until December 15.

Medical Examinations. All entering students must furnish a record of immunizations, and all entering students who intend to reside on campus must have a physician certify that they have had a recent physical examin-

ation. The form the College provides for the doctor's use must be completed after April 1 and returned not later than July 15.

Deferred Enrollment. Upon request, the College may grant an accepted student one year to exercise the option of enrolling. The student who delays enrollment is subject to admission requirements in force at the time of acceptance. If students enroll at another institution before enrolling at Mary Washington, they must apply again as transfer students.

Students will be subject to rules, regulations, and financial charges in effect when they actually enroll.

Advanced Placement. Students entering from high school may apply for college credit through the examination given by the Advanced Placement Program of the College Board. These examinations are offered in May in various academic subjects. The college will grant credit for scores of 3 or above on the A.P. exams. For further information students should consult their high school guidance counselors. Interested students should have the results of the Advanced Placement examination forwarded to the College.

Challenge Examination. To demonstrate mastery of subjects covered in certain Mary Washington courses, an entering student may take examinations to support a petition for academic credit. Such examinations, however,

are not available in studio and laboratory courses, seminars, individual study courses, and many upper-level courses. Credits earned in this manner may not count toward the major program, but may be used to satisfy General Educaion Requirements. A fee is charged for taking a challenge examination.

Admission as a Transfer Student

The Admissions Committee makes its decision on transfer students on the basis of the application, a high school transcript, transcripts of all college work, and the Scholastic Aptitude Test.

Candidates may be considered for transfer admission if, in the last institution attended, they are entitled to honorable dismissal without academic or social probation.

Transfer Credit. As a rule, Mary Washington gives transfer credit for courses of the same type (liberal arts courses) and under the same guidelines as courses it offers. Courses for which a student requests transfer credit must have earned a minimum grade of C and must not overlap those which the student takes at the College. New transfer students should have transcripts from other institutions sent directly to the Office of Admissions. They should also provide a catalog in evaluating their credits. The Office of Academic Services will complete an estimate of transfer credits to be allowed. After admission, a final evaluation will be issued by the Office of Academic Services. Transfer credit becomes a part of the permanent record when the student completes one semester's work at Mary Washington College.

Residence Requirement for Transfer Credit. To be eligible for a Mary Washington degree, a student must earn 30 semester hours of credits from the College and must complete at least 15 of the last 21 credits on campus. For full information on transfer credit, see "Policies and Procedures."

Procedure. The Vice President for Admissions and Financial Aid will send a prospective transfer student an application and a secondary school transcript form. The student must complete and return the application and arrange for the transcript form to be completed and sent by the appropriate secondary school official. The student must also arrange for transcripts to be sent from all colleges attended.

Transfer applicants should submit all materials by March 1 if they wish to be considered for admission for the fall semester, or by November 1 if they wish to enter in the spring. After these dates, applications are considered on a space-available basis.

Examination. A candidate must submit the results of the Scholastic Aptitude Test, normally included on the high school transcript. A candidate who cannot provide these SAT results should consult with the Vice President for Admissions and Financial Aid for advice about appropriate subtitutions.

Committee Review. The Committee considers many factors in judging whether the transfer candidate can succeed at Mary Washington College; however, it puts particular emphasis on the student's program and academic achievements in the college last attended.

Fees and Deposits. These are the same as the fees and deposits for stu-

dents entering directly from high school.

Medical Examination. All entering transfer students must furnish a record of immunizations, and all entering transfer students who intend to reside on campus must have a physician certify that they have had a recent physical examination. The form that the college provides for the doctor's use must be completed after April 1 and returned not later than July 15.

Admission before High School Graduation

Under one of three plans, selected students with exceptional ability can enroll at Mary Washington College before they have graduated from high school.

Admission to the Summer Session. A rising high school senior with intellectual and personal maturity and academic promise of the highest caliber may apply to the Summer Session. A principal or guidance counselor must recommend the student.

After consulting the principal or guidance counselor, the student submits a Summer Session application. If accepted, the student takes the same courses and course load as any freshman student. Credits and grades earned apply to the student's permanent record at Mary Washington.

Admission to the Summer Session, for any student, does not constitute admission to the College as a degree-seeking student. A student who wishes to earn a Mary Washington degree should apply, following the normal procedures, as early as possible during the senior year of high school.

Admission to Part-Time Study during the Regular Session. To supplement their academic loads in the senior year, qualified seniors in area high schools may apply for admission as part-time special students.

Candidates submit the special-student application, a high school transcript, and a letter of recommendation for this program from the principal or director of guidance.

Admission after the Junior Year. This program, in which the student enters as a full-time freshman after the junior year in high school, is designed for a small number of exceptionally qualified students who have completed almost all of the credits required for high school graduation.

To be considered, a candidate must have all the required credits in mathematics, science, and foreign language. Most commonly, at the end of the junior year the student has only one unit in English and one in social science to complete.

The admission procedure is the same as that for a regular candidate. The student presents Scholastic Aptitude Tests results with the application, and may submit Achievement Test results before enrolling.

Such a student needs all the supporting material required of a regular candidate; in addition, the high school counselor will be asked to speak directly to the question of the student's maturity. The Admissions Committee examines the application with the same criteria it uses for a senior, with the addition of the statement of maturity.

By arrangement with the secondary school principal, a Virginia student can graduate from high school at the end of the freshman year at Mary Washington, using College courses to fulfill a maximum of two high school credits.

FEES AND ASSISTANCE

Semester Fees and Expenses

The fees outlined in this section have been approved by the Board of Visitors and are effective for the 1986-87 fiscal year. Any changes from this schedule of fees will be announced immediately.

Questions about fees and payment procedures should be directed to the Office of Student Accounts, Room 111, George Washington Hall, telephone (703) 899-4631.

Questions about financial assistance and general college expenses should be forwarded to the Office of Admissions and Financial Aid, Room 303, George Washington Hall, telephone (703) 899-4684.

Full-time Residential Students. The fee schedule below is for a student carrying 12-18 semester credit hours. A student carrying more than 18 semester credit hours must pay a tuition overload fee for each additional credit hour (see next page).

1986-87 Fees

Virginia Students	Year Total	Per Semester	Non-Virginia Students	Year Total	Per Semester
Tuition	$1,204	$ 602	Tuition	$3,024	$1,512
Comprehensive Fee*	698	349	Comprehensive Fee*	698	349
Residential Fee	1,728	864	Residential Fee	1,728	864
Board	1,330	665	Board	1,330	665
Total Virginia Students	$4,960	$2,480	Total Non-Virginia Students	$6,780	$3,390

The residential fee includes health center services; however, any prescribed medication is charged to the student's account.

The board charge includes three meals a day, seven days a week, throughout the academic session. *All* residential students must participate in the board plan; no partial plans are available.

1986-87 Fees
Full-time Non-Residential Students

Virginia Students	Year Total	Per Semester	Non-Virginia Students	Year Total	Per Semester
Tuition	$1,204	$ 602	Tuition	$3,024	$1,512
Comprehensive Fee*	698	349	Comprehensive Fee*	698	349
Total Virginia Students	$1,902	$ 951	Total Non-Virginia Students	$3,722	$1,861

*Comprehensive Fee. The Comprehensive Fee is used to support student organizations, athletic programs, and a variety of other college programs and services. Most student activities and events are provided without additional charges to the student.

Part-time Students. Part-time students register for fewer than 12 semester credit hours. Virginia students are charged $45 per credit hour and non-Virginia students, $104 per credit hour. In addition, each part-time student is required to pay a $15 per credit hour Comprehensive Fee.

Also, a non-refundable $20 special student registration fee which permits enrollment in fall and spring semesters is required.

Students participating in the off-campus teacher training program who are part-time are charged on the basis of the number of credits for which the student is enrolled at Mary Washington. A non-refundable fee of $100 is charged at the time a student-teaching application is submitted and will be credited to the account if the student enrolls in the course.

Part-time students are not ordinarily eligible for health center or dining hall services. A part-time student may participate in either of these services by paying the appropriate fee at registration. Use of these services will depend on their availability at the time of the request.

Other Required Fees

Application Fee—Degree-Seeking Applicants. A non-refundable fee of $20.00 must accompany the application for admission from a first-time undergraduate, degree-seeking applicant. This fee is applied to the cost of processing the application for admission. It is entirely separate from other fees, is not refundable, and cannot be deducted from other charges.

Contingent Fee. All residential students must pay a $100 Contingent Fee upon initial enrollment to the College. This fee is in addition to the fees outlined above, is included in the bill for the first semester, and is due with the first payment. The Contingent Fee will be applied against any outstanding balance upon graduation or withdrawal from the College. Any

remaining portion of the Contingent Fee will be refunded at that time.

Declaration-to-Continue Processing Fee. A nonrefundable fee of $20 must be paid by all undergraduate degree-seeking students (except BLS students) returning to or continuing in the College.

Other Fees

Late Payment Fee. A fee of $75 will be charged to those students whose accounts are not paid in full by the published deadline date for payment of fees.

Tuition Overload Fee. A full-time student registered for more than 18 semester credit hours is required to pay an additional fee. For Virginia students the charge is $45 per credit hour for each credit hour exceeding 18, and for non-Virginia students $104 per credit hour.

Returned Check Fee. There is a service charge of $12 for each check returned for insufficient funds or similar reasons. A cashier's check is then required in place of the returned check.

Audit Fee. Part-time students may audit a course for no credit on a space-available basis for a fee of $15 per credit hour.

Credit-by-Examination. Degree-seeking students may take special or individually prepared examinations for which credit is awarded for a fee of $45.

Riding Fee. Classes in horsemanship are available and require payment of a special instructional fee which is in addition to the tuition charge. This fee ranges from $325 to $350 per semester. Transportation is also available for an additional fee.

Study Abroad Fee. Students planning to study abroad for a semester or year must pay a program service fee of $25 per semester for advising, counseling, and other administrative detail required for this program.

Speech Pathology Fee. Students leaving the College to complete the fourth year in Speech Pathology must pay a program service fee of $50 prior to enrolling in the cooperating institution.

Medical Technology Fee. Students pursuing the fourth year of Medical Technology at a cooperating institution shall pay the established tuition rates at Mary Washington College, if tuition is not charged by the cooperating institution, or shall pay the difference between the tuition charged by the cooperating institution and the tuition at Mary Washington College, if tuition of the cooperating institution is less than the Mary Washington College tuition.

Bachelor of Liberal Studies Life/Work Portfolio. BLS candidates will pay a $50 fee for the review of their life/work portfolio.

Senior Citizens. A legal resident of Virginia 60 years of age or older may take courses at Mary Washington at reduced rates provided space is available. A resident having a taxable income not exceeding $5,000 for federal income tax purposes for the preceding year may enroll in courses for credit or non-credit or may audit credit courses (attend classes without receiving grades) at no charge. A Virginia senior citizen with federal taxable income levels exceeding $5,000 may audit credit courses or enroll in non-credit

courses without paying general college fees, but must pay general college fees in order to take courses for college credit. The application fee of $20 will be charged an applicant whose taxable income exceeds $5,000.

Terms of Payment

All fees, including room and board, are billed and payable in advance by the semester.

Room and Tuition Deposits. After notification of acceptance for admission or continuance by the Vice President for Admissions and Financial Aid, a deposit of $200 is required of a residential student, and a $100 deposit is required of a non-residential student. No student will be assigned a residence hall room until his payment has been received. These deposits are not normally refundable after a specified deadline and are applied to the fees for the regular session immediately following.

A residential accommodation is reserved and guaranteed for each student who indicates he or she wishes a space in college housing. Any student who changes from residential to commuting status after an announced deadline date will be required to pay the room fee for the assigned space for the semester.

Exceptions to the policy will be made only in the most unusual circumstances, as determined by the Vice President for Business and Finance and the Vice President for Admissions and Financial Aid.

Statements and Due Dates. Each student is mailed a statement well in advance of the beginning of each semester, and payment is due by the date specified on the statement. Any variations from the terms of the payment listed below must be approved in writing by the Vice President for Business and Finance prior to the due dates.

If a full-time student has not received a statement of charges and fees within 45 days prior to the beginning of the semester, the student should notify the Office of Student Accounts as soon as possible, so that a statement can be prepared, mailed, and the account paid by the due date.

A late payment fee of $75 will be charged to any student whose full payment has not been received in the Office of Student Accounts by the due date.

At the end of the semester a student's account will include any charges incurred for library fines, lost books, parking tickets, prescriptions, lost keys, building and equipment damage, and any other miscellaneous charges. At this time, any student whose full account has not been settled will not be permitted to take exams, receive grades or transcripts, or be eligible to return to the College until the account is settled.

Scholarship and Loan Awards. If a student is receiving financial aid through Mary Washington College, one half the annual award will be shown on each semester statement. If an expected award has not been credited on the statement, the student should contact the Office of Financial Aid for clarification.

If a student is receiving financial aid from a source other than the College, it is the student's responsibility to insure that notification of the award, its amount, and method of payment have been received in the Office of Student Accounts by the statement due date. Failure to provide such

notification could result in a student's account being delinquent.

Awards and loans from a source other than the College will not be credited to the account until they are actually received by the Office of Student Accounts.

Delinquent Accounts. Any charge incurred in collecting a delinquent account will be added to the account. This applies, but is not limited, to charges by an attorney or collection agency.

Refund of Fees. A student who withdraws from the College during the semester should notify the Office of the Academic Dean immediately upon withdrawal and complete the withdrawal form. A copy of the form will be sent to the Office of Student Accounts and will serve as the basis for withdrawal charges and credits.

All students, full- or part-time, residential or non-residential, must withdraw through the Office of the Academic Dean. Adjustments of charges and credits may be made only by the Office of Student Accounts.

The following charges are applicable for students withdrawing during the semester:

Withdrawal Charges

Semester Basis	1st/15th day of semester	16th/55th day of semester	After 55th day of semester
Tuition	20% of semester charge	50% of semester charge	Full semester charge
Residential Fee*	$200	50% of semester charge	Full semester charge
Comprehensive Fee	20% of semester charge	50% of semester charge	Full semester charge
Board Fee		See Below	

*For the purpose of determining withdrawal charges, the semester begins with the first day of classes. A residential student withdrawing prior to the first day of classes will be charged the $200 room deposit and board at the prevailing rate.

Board Fee. Charges will be assessed on the basis of the number of days in residence at the prevailing board rate for the semester in which the student withdraws.

Classification as a Virginia Student

Section 23-7.4 of the Virginia Code governs eligibility for in-state tuition rates at public institutions of higher education in Virginia.

Applicable Statute

Section 23-7.4 sets forth the following definitions and requirements for students seeking in-state tuition rates:

23-7.4. Eligibility for in-state tuition charges.

A. For purposes of this section the following definitions shall apply:

"Date of the alleged entitlement means the first official day of class within the term, semester or quarter of the student's program.

"Dependent student" means one who is listed as a dependent on the federal or state income tax return of his parents or legal guardian or who receives substantial financial support from his parents or legal guardian.

"Domicile" means the present, fixed home of an individual to which he returns following temporary absences and at which he intends to stay indefinitely. No individual may have more than one domicile at a time. Domicile, once established, shall not be affected by mere transient or temporary physical presence in another jurisdiction.

"Domiciliary intent" means present intent to remain indefinitely.

"Emancipated minor" means a student under the age of eighteen on the date of the alleged entitlement whose parents or guardians have surrendered the right to his care, custody and earnings and who no longer claim him as a dependent for tax purposes.

"Full-time employment" means employment resulting in, at least, an annual earned income reported for tax purposes equivalent to fifty work weeks of forty hours at minimum wage.

"Independent student" means one whose parents have surrendered the right to care, custody and earnings, have ceased to support him, and have not claimed him as a dependent on federal and state income tax returns for at least twelve months prior to the date of the alleged entitlement.

"Substantial financial support" means financial support in an amount which equals or exceeds that required to qualify the individual to be listed as a dependent on federal and state income tax returns.

"Unemancipated minor" means a student under the age of eighteen on the date of the alleged entitlement who is under the legal control of and is financially supported by either of his parents, legal guardian or other person having legal custody.

B. In order to become eligible for in-state tuition, an independent student shall establish by clear and convincing evidence that for a period of at least one year immediately prior to the date of the alleged entitlement, he was domiciled in Virginia and had abandoned any previous domicile, if such existed.

In order to become eligible for in-state tuition, a dependent student or unemancipated minor shall establish by clear and convincing evidence that for a period of at least one year prior to the date of the alleged entitlement, the person through whom he claims eligibility was domiciled in Virginia and had abandoned any previous domicile, if such existed.

In determining domiciliary intent, all of the following applicable factors shall be considered: continuous residence for at least one year prior to the date of alleged entitlement, state to which income taxes are filed or paid, driver's license, motor vehicle registration, voter registration, employment, property ownership, sources of financial support, location of checking or passbook savings accounts and any other social or economic relationships with the Commonwealth and other jurisdictions. Domiciliary status shall

not ordinarily be conferred by the performance of acts which are auxiliary to fulfilling educational objectives or are required or routinely performed by temporary residents of the Commonwealth. Mere physical presence or residence primarily for educational purposes shall not confer domiciliary status.

Those factors presented in support of entitlement to in-state tuition shall have existed for the one-year period prior to the date of the alleged entitlement.

C. The domicile of a married person shall be determined in the same manner as the domicile of an unmarried person.

The domicile of an emancipated minor shall be established in the same manner as any other independent student.

Any alien holding an immigration visa or classified as a political refugee shall also establish eligibility for in-state tuition in the same manner as any other student. However, absent congressional intent to the contrary, any person holding a student or other temporary visa shall not have the capacity to intend to remain in Virginia indefinitely and, therefore, shall be ineligible for Virgina domicile and for in-state tuition charges.

The domicile of a dependent student shall be rebuttably presumed to be the domicile of the parent or legal guardian claiming him as an exemption on federal or state income tax returns currently and for the tax year prior to the date of the alleged entitlement of providing him substantial financial support.

A matriculating student who has entered an institution classified as out-of-state shall be required to rebut by clear and convincing evidence the presumption that he is in the Commonwealth for the purpose of attending school and not as a bona fide domicile.

For the purposes of this section, the domicile of an unemancipated minor or a dependent student eighteen years of age or older may be either the domicile of the parent with whom he resides or the parent who claims the student as a dependent for federal and Virginia income tax purposes for the tax year prior to the date of the alleged entitlement and is currently so claiming the student. If there is no surviving parent or the whereabouts of the parents are unknown, then the domicile of an unemancipated minor shall be the domicile of the legal guardian of such unemancipated minor unless there are circumstances indicating that such guardianship was created primarily for the purpose of conferring a Virginia domicile on the unemancipated minor.

D. It is incumbent on the student to apply for change in domiciliary status on becoming eligible for such change. Changes in domiciliary status shall only be granted prospectively from the date such application is received.

A student who knowingly provides erroneous information in an attempt to evade payment of out-of-state fees shall be charged out-of-state tuition fees for each term, semester or quarter attended and may be subject to dismissal from the institution. All disputes related to the veracity of information provided to establish Virginia domicile shall be appealable through the due process procedure.

Military Provisions

E. A nonmilitary student whose parent or spouse is a member of the armed forces may establish domicile in the same manner as any other stu-

dent. However, a nonmilitary student, not otherwise eligible for in-state tuition, whose parent or spouse is a member of the military stationed or residing in the Commonwealth pursuant to military orders and claiming a state other than Virginia on their State of Legal Residence Certificate, shall be entitled to in-state tuition charges when the following conditions are met: (i) if the student is a child of a member of the armed forces, then the nonmilitary parent shall have for at least one year immediately prior to the date of alleged entitlement for in-state tuition charges, resided in Virginia, been employed full time, and paid individual income taxes to Virginia. Such student shall be eligible for in-state tuition charges only if the nonmilitary parent claims him as a dependent for Virginia and Federal income tax purposes; or ((ii) if the student is the spouse of a member of the armed forces, then such student shall have for at least one year immediately prior to the date of alleged entitlement for in-state tuition, resided in Virginia, been employed full time, and paid individual income taxes to Virginia. Any student whose spouse or parent is a member of the armed forces shall be eligible for in-state tuition charges for so long as these conditions continue to be met.

Non-Virginia Residents Employed in Virginia

F. Students who live outside this Commonwealth and have been employed full time inside Virginia for at least one year immediately prior to the date of the alleged entitlement for in-state tuition shall be eligible for in-state tuition charges if such student has paid Virginia income taxes on all taxable income earned in this Commonwealth for the tax year prior to the date of the alleged entitlement. Such students shall continue to be eligible for in-state tuition charges for so long as they or their qualifying parent are employed full time in Virginia, paying Virginia income taxes on all taxable income earned in this Commonwealth, and the student is claimed as a dependent for Virginia and federal income tax purposes.

General Information

Domicile Distinguished from Residence

A person's legal domicile is the present, fixed home to which he/she returns following temporary absences and at which he/she intends to stay indefinitely. Legal domicile is not mere residence or physical presence in a certain place. One's residence does not necessarily become his or her domicile through the passage of time alone. For example, a person could live in Virginia for several years, pay Virginia income tax, and register his or her automobile in Virginia but still not be a Virginia domicile for failure to demonstrate, clearly and convincingly, that he or she is a Virginia domicile; that is, his or her present, fixed home to which he or she returns following temporary absences and intends to stay indefinitely.

Acquiring Domicile

At birth, every child automatically acquires the domicile of the parent. Generally, children retain such domicile until they gain their majority (age 18) or otherwise emancipate from their parents, and establish a different domicile by clear and convincing evidence.

Any individual may only have one domicile at a time, though the per-

son may have a physical presence or residence in more than one state. Once acquired, a person retains such domicile (including domicile by birth) until he or she proves that he or she has established a new one. The mere subjective intent to abandon an old domicile is not sufficient. Some positive objective action must be taken to demonstrate a change of domicile. For example, merely intending to make Virginia one's home without ever physically residing in Virginia could be insufficient. The requisite domiciliary intent must be established by clear and convincing evidence. However, as noted, mere residence and payment of taxes to Virginia does not automatically establish Virginia domicile, though they are important factors.

This general information is not intended to be exhaustive. Guidelines have been promulgated which each institution is required to administer in implementing the above statute.

Classification Procedure

The institution of higher education will review the student's application and determine eligibility on the basis of information provided by the student. Each institution of higher education is required to have a due process procedure including, at least, an initial determination, intermediate review and a final review. Such reviews are designed to provide a fair opportunity for determining eligibility for in-state rates.

Financial Aid

Primary responsibility for financing a college education must be assumed by the parents and the student. Mary Washington College does, however, provide assistance to students whose parents cannot provide all the funds needed to meet college costs. Approximately two million dollars is available per year for this purpose. Financial assistance from the College should be viewed as supplementary to the efforts of the family.

The College believes that, although financial need should be and is of prime consideration in awarding grants and loans, merit also should be recognized by making available certain scholarship funds for rewarding and encouraging high academic achievement.

It is MWC's policy to meet a percentage of the demonstrated need of its students without regard to physical disability, political affiliation, marital status, sex, color, race, religion, age, or national origin with a "package" of assistance which combines loan, grant, scholarship and/or employment. This procedure guarantees each recipient a fair share of gift funds, keeps loans at a proportionate level, and develops a sense of responsibility and independence through the concept of self-help. Students with the greatest need will receive larger grant and work resources than those with lesser need.

Through a comprehensive program of grants, scholarships, loans, and student employment from Federal, State, College and community resources, the Office of Admissions and Financial Aid strives to meet a percentage of the demonstrated need of all applicants who apply within the deadline. However, it is the policy of the College to provide assistance only for direct educational costs. An exception is made for students who participate in the off-campus College Work-Study Program during the summer when indirect costs are funded for those who demonstrate sufficient need.

Demonstrated need is determined by a uniform analysis and evaluation

of the applicants' and their families' incomes and assets. MWC is a member of the College Board and subscribes to an activity of that organization known as the College Scholarship Service (CSS), which provides MWC with a systematic need analysis of the applicant's resources. From this analysis the financial aid officer determines the amount of demonstrated need a student may have and then uses the College's available resources to meet that need.

Financial need is the difference between the cost of education at MWC and the amount of money a student and his/her family can reasonably provide to meet these expenses.

Freshman and transfer students are asked to submit a Financial Aid Form (FAF) (available at high schools or colleges) *postmarked* to CSS before March 1. Returning students must have the FAF *postmarked* before March 15. Early decision candidates are asked to file the FAF after January 1 of their senior year. The form should indicate that Mary Washington College (CSS code 5398) should receive a copy of the results of the need analysis. First-time students will be informed of their financial assistance by mid-April and returning students by mid-July. Late applicants, those not meeting the stated FAF filing deadlines, will be considered for assistance *only* if they demonstrate need and funds are available.

All needy students are expected to contribute a portion of their summer earnings to their education costs. During the 1986-87 session freshmen are expected to contribute $700 and upperclassmen $900 from their summer earnings.

Student Eligibility

Financial Aid is available to students at MWC who:

(1) demonstrate financial need through the services of the College Scholarship Service needs analysis;

(2) are enrolled as an undergraduate, degree-seeking student taking a full-time course load (minimum of 12 hrs. per semester). Exceptions: Pell Grant and Guaranteed Student Loans require minimum of 6 hrs. per semester;

(3) are U.S. citizens or are in the U.S. for other than temporary purpose and intend to become permanent residents or are permanent residents of the Trust Territories of the Pacific Islands.

(4) are making satisfactory academic progress AND are in good academic standing. Good standing is defined as being eligible to enroll at MWC as a full-time degree-seeking student. Satisfactory academic progress requires that during any year in which financial assistance is offered the student must show progress toward the next academic level. A BA/BS degree (total of 122 hours) from MWC can be obtained in eight semesters, and normal progress toward a degree is as follows:
Freshmen: fewer than 28 credits
Sophomores: 28 to 57 credits
Juniors: 58-89 credits
Seniors: 90 credits or more

Policy: A student will reflect progression to the next academic level if the student is within two (2) credits of meeting the criteria for that next level.

A student who does not progress satisfactorily to the next level has the following options: (1) enroll for the necessary number of hours during the summer term (Successful completion will re-establish aid eligibility for the following fall semester.); (2) not enroll for the summer term but enroll for the fall semester (without financial aid) as a full-time student, taking the number of necessary courses to bring status to the next academic level, thus establishing eligibility for spring semester financial assistance.

BLS students need 120 credits to graduate. The same progression policy applies to them.

3/4 Time Students	1	2	3	4	5	6	7	8	9	10	11	12
(9-11 hrs. per sem.)	10	20	30	40	50	60	70	80	90	100	110	120

(same policy applies as stated above)

1/2 Time Students	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
(6-8 hrs. per sem.)	8	16	24	32	40	48	56	64	72	80	88	96	104	112	120	122

Transfer Students

When transfer students enter MWC for the first semester, they will be considered to be maintaining satisfactory progress. Their academic level will be based on the number of hours accepted by MWC.

Evaluation of progress after the initial semester will be based on the number of hours taken at MWC, using the standards established above.

Procedures for Appeal

All students not making satisfactory academic progress will receive a letter from the Financial Aid Office advising of this status and the procedures for reinstatement of aid. Upon written appeal by the student, the Associate Dean for Financial Aid will review the circumstances of the appeal and de-

termine if mitigating circumstances exist. The following information may be considered in determining whether the student is still maintaining satisfactory progress:

(1) unusual circumstances, such as extended illness documented by a physician;

(2) personal or psychological problems documented by a physician or psychologist;

(3) changes in educational objectives.

Written notification will be provided to the student in a timely manner.

Student employment requires a cumulative grade point average of 2.00 to work on campus.

Money available to the applicant from outside organizations (e.g., Veteran's benefits, high school scholarships, state grants) is taken into account when financial need is determined. If such resources become available after an applicant has submitted an aid application or after the applicant has received a financial aid award, it is the student's responsibility to notify the Office of Admissions and Financial Aid of the source and amount of assistance. A student's aid cannot exceed demonstrated need, and consequently outside assistance may necessitate a revision in the financial award.

College policy denies financial aid recipients in residence at MWC permission to maintain their own cars or cars owned by members of the families unless prior written permission is granted. Financial aid given to students maintaining cars without permission is subject to revocation. Permission is granted only for reasons of health or academic necessity.

Each year a student must re-establish eligibility for financial aid by submitting the Financial Aid Form to the College Scholarship Service. Family assets and income vary annually, and it is appropriate that the amount of assistance a student is to receive be reviewed annually and adjusted according to the demonstrated need. Should unusual circumstances become evident and justifiable after submission of a financial statement, the student may seek an adjustment in aid for that year by contacting the financial aid officer.

Financial aid recipients who withdraw from the College before the scheduled end of an award period will have their awards recalculated according to the established refund policy of the College which is based on current Federal regulations.

One-half of all scholarship, grant and loan awards will automatically be credited to the recipient's account at the beginning of each semester. Student employment earnings will be paid directly to the recipient. College work-study earnings are paid directly to the student with a specified amount being used for educational purposes.

New students interested in possible campus employment may contact the Office of Admissions and Financial Aid to receive the required application form. Currently enrolled students may obtain the required application from the Office of Admissions and Financial Aid.

College Scholarships and Grants

(For additional awards and scholarships, see "Recognition of Student Achievement")

Regional Scholarships Program. Each spring, selection committees choose up to twenty-five outstanding and promising entering freshman students as Regional Scholars, twenty of whom will come from Virginia's ten Congressional Districts and up to five from among out-of-state nominees. These scholars receive four-year $1,500 honor scholarships in recognition of superior academic preparation and potential for achievement. To retain this scholarship, a student must maintain a grade point average of at least 2.5 during the freshman year and at least 3.0 in subsequent years. Students must be nominated by their high school principals or guidance counselors before they may apply for their scholarships. Deadline for nomination is January 10. An applicant for the scholarship must also be an applicant for admission.

Mary Washington College Anonymous Scholarships. These scholarships are awarded annually to students who need financial assistance and maintain satisfactory academic progress.

State Scholarships. These scholarships are awarded by the College on the basis of demonstrated financial need to regular full-time students who are legal residents of Virginia.

The Edward Alvey, Jr., Scholarship. Established by the Class of 1936, the scholarship is awarded annually to the student most closely emulating the commitment to education and academic excellence exhibited by Dr. Alvey throughout his outstanding career at Mary Washington College. The recipient must be enrolled in an approved program leading to certification as a teacher and must have a grade point average of at least 3.0. Selection will be made by the Office of Financial Aid upon consultation with the Department of Education.

Maurine Arnott Scholarship. This scholarship was established by a bequest from Maurine Arnott to aid worthy and needy students, with preference given to female students.

Lalla Gresham Ball Scholarship. These scholarships were established by Mrs. Jessie Ball duPont in memory of her mother. An applicant must reside in one of the following counties of Virginia: King George, Westmoreland, Northumberland, Richmond, Lancaster, Essex, or King and Queen. These scholarships may be renewed annually provided the recipient maintains good academic standing (at least a 2.0 cumulative grade point average) and is enrolled full-time.

Bushnell Scholarship. This scholarship is awarded to a student in need of financial assistance who maintains satisfactory academic progress.

The Chandler Scholarship. Algernon B. Chandler, President of Mary Washington from 1919 to 1928, bequeathed a sum to the College. The proceeds are used toward the education of a junior or senior selected on the basis of scholarship and need.

James Harvey Dodd Award in Economics. Established in memory of Dr. James Harvey Dodd, who served on the faculty from 1928 to 1962, this annual stipend is presented to a student who intends to pursue graduate studies in economics.

Faculty Children's Scholarship Fund. This scholarship has been created

for the purpose of offering financial assistance to children of currently employed, full-time Mary Washington College faculty who may wish to matriculate as full-time degree seeking, undergraduate students at MWC. These awards will be made without any consideration to financial need or special academic qualifications and with the proviso that the recipients maintain academic good standing and full-time, degree seeking enrollment status. Applicants must write a letter of interest to apply for the scholarship by May 15. Letters are to be directed to the Office of Financial Aid.

Winnie Hudson Hodgson Scholarship. Established by Mrs. Hodgson (Class of 1940), the scholarship is awarded annually to a deserving MWC student, with preference given to a worthy and needy graduate of Culpeper High School.

The Michael Houston Memorial Fund. Established in 1973 in memory of Michael Houston, the first Vice President of the College and Associate Professor of History, scholarships are awarded to students whose parents are among the classified personnel of the College.

Martin Luther King Memorial Scholarship. Established by members of the College community following the assassination of Dr. King, this scholarship is awarded to a financially needy student selected by the Office of Admissions and Financial Aid.

Albert R. Klein Memorial Scholarship. This scholarship was established in memory of Dr. Albert R. Klein, former Chairman of the Department of Dramatic Arts and Speech. Preference is given to students pursuing a major or concentration in drama or speech.

Carrol H. Quenzel Memorial Scholarship Fund. Established in memory of Dr. Carrol H. Quenzel, former Mary Washington Librarian and Professor of History, these annual scholarships are awarded to deserving junior and senior students. Preference is given first to those who worked in the Library in the previous semester or who are working there in the current semester, and next, to students majoring in history.

Lynn Ruby Memorial Scholarship. Established in memory of Lynn Ruby ('68), this award is available first to graduates of Woodbridge Senior High School, Woodbridge, Virginia, and then to residents of the State of Ohio.

The Thomas Howard and Elizabeth Merchant Tardy Endowment Fund. The income from the grant is used primarily to aid students descended from James R. Tardy and his wife, Mary M. Tardy, and from William H. Merchant and his wife, Belle Ashby Merchant. If funds remain after assisting descendents, other needy students may also be considered for assistance.

Frances Thompson Scholarship. This scholarship is awarded to a student from the Fredericksburg area who is in need of financial assistance and maintains satisfactory academic progress.

Tillery Scholarship. The recipient, a graduate of a public senior high school in Virginia, must intend to be a residential student at MWC for four years and earn a B.A. or B.S. degree. This $500 scholarship for each of the four years is awarded in recognition of superior academic preparation and potential for achievement. To retain this scholarship, a student must main-

tain a cumulative grade point average of 2.5 or better during the freshman year and 3.0 or higher in subsequent years. Students must be nominated by their high school principals or guidance counselors before they may apply for their scholarships. Deadline for nominations is January 20.

Mathematics/Science and Foreign Language Scholarships and Loans. Juniors and seniors majoring in approved mathematics, science education, or language programs with a cumulative grade point average of at least 2.7 may be nominated.

Mary Jo Kleimer-Phillips Scholarship. The recipient must be a junior or senior from Virginia or Maryland, must have a cumulative grade point average of at least 3.00, and must be working toward teacher certification in elementary education (K-6).

Edgar E. Woodward Faculty Children's Scholarship. This annual scholarship awarded to faculty children enrolled full-time in a degree-seeking program.

Federal and State Grants

Pell Grant (formerly Basic Educational Opportunity Grant). The Pell Grant Program was designed by the Federal government to provide financial assistance for those who without such assistance could not attend college. Pell grants are intended to be the floor of a financial aid package and may be combined with other forms of aid to meet the cost of education. The amount of a Pell Grant is determined by student and family financial resources.

Unlike a loan, a Pell Grant does not have to be repaid. Applications are available in the secondary schools and in the College's Office of Admissions and Financial Aid, or application may be made by submitting a FAF to the CSS.

Supplementary Educational Opportunity Grants. Established by the Higher Education Act of 1965 and subsequent amendments, these grants are awarded to students having exceptional financial need who otherwise would not be able to attend the College. Recipients must maintain satisfactory academic progress.

The Virginia College Scholarship Assistance Program Grant. The Virginia College Scholarship Assistance Program provides need-based grants to Virginia students enrolled in Virginia public and private institutions of higher learning.

The program's purpose is to serve as one means of guaranteeing that financial conditions will not prevent the Commonwealth's college-age students from gaining access to higher education. The FAF is used to apply for the program.

Virginia Transfer Grant Program. Grants for full-tuition are available to black students who transfer to one of Virginia's traditionally white public senior institutions of higher education.

State Law Enforcement Officer's Educational Program (SLEOEP). This program helps pay the tuition and fees of law enforcement officers attending college.

Loans

(Information on all loans is available in the Office of Admissions and Financial Aid.)

MWC Student Aid Discretionary Loan Fund. Established in 1971 by the Cap and Gown Chapter of Mortar Board, this fund assists currently enrolled students in need of a cash sum.

National Direct Student Loan. Under the terms of this federal program administered by MWC, a student may borrow for undergraduate study. With demonstrated financial need as the main criterion, a National Direct Student Loan may be awarded to any citizen or permanent resident of the United States. No interest is charged while the borrower's student status continues. Under normal conditions, repayment must commence six months after cessation of formal education. Interest accrues at a 5% interest rate and repayment may be spread over a 10-year period.

Guaranteed Student Loan Program. This program enables students to borrow directly from banks, credit unions, savings and loan associations, or other participating lenders who are willing to make educational loans. The loan is guaranteed by a state or private federal government. The maximum loan per academic year is $2,500. The current interest rate is 8%, and repayment begins 6 months after leaving school or graduation. Dependent students, whose parent(s) and student's adjusted gross income from the prior year's federal tax form does not exceed $30,000 are eligible to apply for a student loan. Independent students only need to consider their adjusted gross income and their spouses (if married). For adjusted gross incomes of over $30,000, a needs analysis by the college will determine loan eligibility. Applications are obtained from the commercial lender.

Virginia Educational Loan Authority. This loan program was created by the Code of Virginia to provide loans to Virginia residents *who are unable to secure guaranteed student loans from commercial lenders.* The maximum loan per academic year is $2,500. The current interest rate is 8%, and repayment begins 6 months after leaving school or graduation. Dependent students, whose parent(s) and student's adjusted gross income from the prior year's federal tax form does not exceed $30,000 are eligible to apply for a student loan. Independent students only need to consider their adjusted gross income and their spouses (if married). For adjusted gross incomes of over $30,000, a needs analysis by the college will determine loan eligibility. Applications are obtained from the financial aid office.

Plus Loans. This loan program is available to parents who do not meet the eligibility requirements for Guaranteed Student Loans and/or need additional funds to meet educational expenses. The interest rate for these loans is 12%. Like Guaranteed Student Loans, they are made by a lender such as a bank, credit union, or savings and loan association. Parents may borrow up to $3,000 per academic year. A borrower must begin repaying the loan within 60 days. Applications may be obtained through commercial lenders.

World War Orphan's Educational Benefits. A program of assistance for children whose parent was killed in action, is missing in action or was pris-

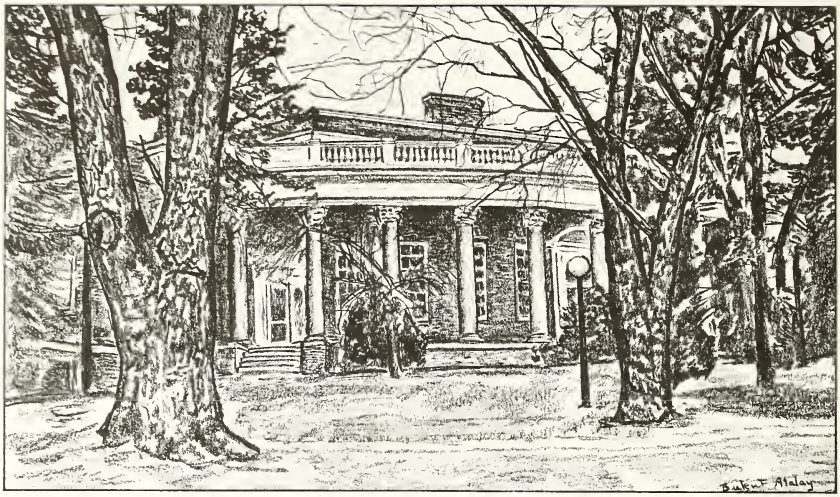
oner of war in any armed conflict subsequent to December sixth, 1941, while serving in the Army, Navy, Marine Corps, Air Force or Coast Guard of the United States, or was or is or may hereafter become totally and permanently disabled due to service during such period. Additional information may be obtained from the Financial Aid Office.

Student Employment

Information on student employment is available in the Office of Admissions and Financial Aid.

Federal College Work-Study Program. Both on- and off-campus employment is available through this program to qualified students demonstrating financial need during the academic session. During the summer, only off-campus employment is available. During the regular session, students work from 10 to 15 hours a week, and rate of pay begins at minimum student wage levels. During vacation periods students can work up to 40 hours per week in public or other non-profit organizations throughout the State under the auspices of what is known as the Virginia Program. Financial need must be demonstrated in order to be eligible. Net earnings from this program are used in meeting college costs.

Campus Employment. The College offers many opportunities for part-time campus employment. It is not necessary to demonstrate financial need to be assigned to campus employment, but campus jobs are assigned with demonstrated need and the ability to perform the job as primary factors. Most positions, which include those in the library, residence halls, laboratories, dining hall and faculty offices, pay $855-$2,000 for the nine-month session.



SERVICES AND ACTIVITIES

ACADEMIC

The College provides a number of facilities and services to assist students with their academic studies and planning. These include library facilities, academic advising, career planning and job placement, the audio-visual center, and academic computing.

The Library

The E. Lee Trinkle Library, named for a former Governor of Virginia (1922-1926), is one of the finest undergraduate libraries in the State. Its resources include more than 300,000 cataloged volumes, 1,300 current magazine and newspaper subscriptions, and an extensive microform collection of back issues of newspaper and periodical titles.

As a United States Federal Government documents depository since 1940, the Library receives approximately 13,000 publications annually. The Library has been a depository for Virginia documents since 1981.

A highlight of the Library's facilities is the Daniel H. Woodward Rare Book Room. This collection of over 2500 works includes a 1496 edition of Pliny's *Naturalis Historia*, a 35-volume set of Diderot's *Encyclopedie* published in 1751, a 1610 edition of John Foxe's *Book of Martyrs*, and an extensive collection of first and scarce editions of works by and about James Joyce.

The library building dates from 1941. An addition in 1963 expanded the stack and seating space, which includes a number of individual study carrels, several reading rooms, small-group study space, and a library instruction classroom area. Electric typewriters, coin-operated copiers, and a bill changer are available for students' use.

During the academic sessions the library is open until 11:00 p.m. five nights a week, with regular weekend hours. Convinced that a library is the natural extension of the classroom, the Library staff offers each semester a

variety of services that are designed to develop students' competence in library use and their understanding of the increasingly complex world of information. These programs include assistance to classes on research projects; a one-credit course, "Library Resources and Their Use;" term-paper clinics that give the student beginning a research project consultation time with a reference librarian; and basic library skills units regularly taught through the English 101 classes and the BLS Orientation Seminar. To help students use library resources effectively, the staff has prepared a number of subject- and discipline-related bibliographies and research guides, as well as a regularly-revised Library Handbook.

Trinkle Library is a member of SOLINET (Southeastern Library Network), a cooperative bibliographic utility that provides online access to a database of over 12 million machine-readable bibliographic records, which it uses for cataloging and processing library materials and for interlibrary loan transactions. The Library is currently installing VTLS, an integrated online library system developed by the Virginia Polytechnic Institute, that will eventually replace the card catalog and will automate library procedures.

The Associates of Trinkle Library, a friends-of-the-library group formed in 1977, offers persons interested in books and libraries the opportunity to share educational and cultural activities. It has contributed a number of significant purchases to the Woodward Collection. Membership in the Associates is open to all interested persons.

Through its active program of services, the Library remains a vital part of the College.

Academic Advising

A coordinate part of the Office of Academic Services, academic advising is handled by professional counselors and faculty members who are available throughout the year to advise students concerning their current and future academic programs. The advisers also suggest sources of information on post-college opportunities. The Office of Academic Services advises all students who have not declared their majors; students are also encouraged to consult with faculty advisers in the areas of their academic interests.

Career Planning and Placement

While, primarily, Mary Washington College aims to provide a sound liberal arts education for its students, the College also seeks to help students secure rewarding careers upon leaving college. To help them find the position or graduate school best suited to their talents and needs, the College provides workshops on career planning for all students and special workshops on resume writing and interview skills for seniors. The Assistant Dean for Academic and Career Advising conducts most of these workshops and periodically publishes a newsletter concerning internships and other career planning activities. The Placement Office compiles, at the student's request, a credentials file, which can be sent to prospective employers. This service is also available to alumni. The Placement Office also maintains a file of job openings and schedules interviews on campus with prospective employers.

The Audio-Visual Center

The Audio-Visual Center, located in Chandler hall, provides audio-visual services to support and enhance the instructional programs of the College.

The AV Center schedules and oversees the operation of Chandler 102 (a 44-seat theatre/lecture room), the technical operations of Monroe 104 (a 200-seat lecture/classroom), and Dodd Auditorium.

Besides maintaining regular day-time hours year round, the Center remains open until 10:00 p.m., Monday through Thursday, during the school year.

Academic Computing

The academic computing facilities provide support to students and faculty wishing to use a computer in their classes or research.

Minicomputers

Hardware: There are three Prime minicomputers on a local area network. Combs Science Hall houses a Prime 750 with six megabytes of main memory, two 300 megabyte disk drives, and a tape drive. In Chandler Hall the network also includes two Prime 2250s, each with two megabytes of main memory, one 68 megabyte disk drive and a tape drive. Users may access any of the three Prime minicomputers from any of the over 50 terminals located across the campus. Printers are available in several academic buildings. Dial-up MODEM lines for remote access are available at 300 and 1200 baud.

Software: The Prime 750 supports a variety of programming languages including BASIC, C, COBOL, FORTRAN 77, LISP, Pascal, and SIMSCRIPT II.5. Both PRIMOS and UNIX operating systems are available. Additionally, text formatting software, graphics systems, and various utilities are available on the system. Software for word processing (WORDMARC) and statistical analysis (SPSS-X and TSP) is available on the Prime 2250s in Chandler Hall.

Microcomputers

Hardware: The microcomputers at Mary Washington College are either for general use by the academic community through the Center for Academic Computing, or for specific uses by individual departments. In each academic building there is one general-use microcomputer lab with four or more microcomputers and printers.

The Center for Academic Computing has over 40 MS-DOS microcomputers. Several departments also use the Apple II, Apple Macintosh, and IBM PC microcomputers.

Software: A variety of software (limited copies) is available for the microcomputers. The Center for Academic Computing has a software library with copies of word processing and file management software for MS-DOS microcomputers.

NON-ACADEMIC

The College has a wide range of activities and services concerned with the non-academic aspects of college life. Under the direction of the Dean of Students, these are covered in detail in the Student Handbook, published by the Dean's office. A few examples are included here.

Sports

Mary Washington has both men's and women's intercollegiate athletic teams. There are men's intercollegiate teams in basketball, cross country, lacrosse, riding, soccer, swimming, tennis, water polo, and indoor and outdoor track and field. The program grows as the number of men on campus increases, and baseball will be added in the spring of 1988. Women have intercollegiate teams in basketball, cross country, field hockey, lacrosse, riding, soccer, swimming, tennis, volleyball, water polo, and indoor and outdoor track and field. Softball will be added in the spring of 1988. From 1982 to 1985, Mary Washington's teams produced 12 state championships, 8 regional championships, one national championship, and 15 All-American athletes.

A modern physical education building provides a basketball gymnasium, dance studios, an intercollegiate swimming pool (and one and three meter diving boards with electronic touch time system), an auxiliary gymnasium, a weight training room, a handball-racquetball court, three competitive volleyball courts, and a multi-purpose activities room. Outdoor facilities include fields for soccer, lacrosse, and field hockey; cross country courses; 14 tennis courts (including a new 10-court, lighted complex); and a new 8-lane, 400-meter Rubaturf all-weather track. New baseball and softball fields will be completed by the fall of 1987.

Clubs

Most academic departments have interest clubs or honoraries; there are also clubs for students interested in physical therapy, medical studies, and international relations. There are Afro-Americans, Young Democrats, Young Republicans, and off-campus branches of student religious organizations. Students produce three regular publications—a weekly newspaper, a yearbook, and a literary magazine.

Residence Halls

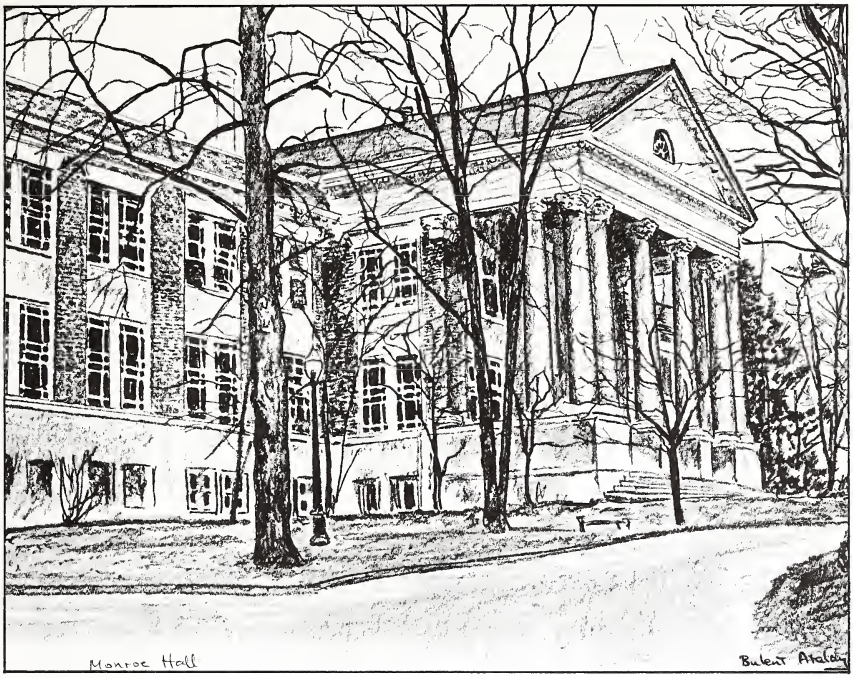
Nineteen residence halls on campus offer students a wide choice in lifestyles. Small language, leadership, and academic/quiet houses, as well as large single-sex and co-educational halls, are available to students. Each hall is staffed with a full-time residence director or head resident and with resident assistants who are upperclass students trained to assist students in college life.

Health Center

The College Health Center offers students diagnostic referral services as well as special care in its 13-bed facility. A full-time physician, 24-hour nursing staff, and consulting services from area specialists help to give Mary Washington College students a comprehensive resource.

Counseling Center

Staffed by trained counselors, the Counseling Center assists students with their personal development. Whether the student has test anxiety, difficulty with an interpersonal relationship, or just a need to talk, the Counseling Center staff is ready to help. All counseling is confidential.



UNDERGRADUATE PROGRAMS

DEGREES

Mary Washington College awards three undergraduate degrees—Bachelor of Arts, Bachelor of Science, and Bachelor of Liberal Studies. The requirements for each degree are outlined below.

BACHELOR OF ARTS, BACHELOR OF SCIENCE

Requirements for these degrees are divided into three basic categories: General Education courses, the major program, and elective courses. The General Education requirements strive to acquaint the student with the various areas of study and modes of thought that are involved in the concept of liberal arts.

The major program allows a student to investigate one discipline (or several in an interdisciplinary major) in considerable depth. Although students are required to major in an academic discipline, they may also work toward a specific career or professional goal. Both major programs and career opportunities are outlined in the following sections.

Together, the General Education requirements and the major program account for approximately one-half to two-thirds of the four-year course of study. Though students decide individually how best to fulfill the remainder of their undergraduate curriculum, the College encourages a rich and diverse total program. Options open to the student include individual study, student-designed special majors, pass/fail courses, internships, and double majors.

Making decisions is a part of one's education at Mary Washington. While faculty members help students select courses and major programs of study, the final decisions are the student's own.

Students are responsible for assuring that they fulfill all degree requirements.

I. B.A./B.S. REGULAR PROGRAM

Degree Specifics. The specific degree is determined by the choice of major program. Both the B.A. and B.S. degrees require 122 credits for completion. Both degrees also require an overall cumulative grade point average of at least 2.00 on Mary Washington coursework, as well as a cumulative grade point average of at least 2.00 in the major program.

Residence Requirement. To be considered a degree candidate, a student must earn at least 30 academic credits at Mary Washington College. These 30 credits must include at least one-half of the major program, unless the student is spending the junior year abroad in an approved program.

Students must earn at least 15 of the last 21 credits of their degree programs on campus.

A. General Education Requirements

Students have to complete all General Education requirements unless exempted. Where appropriate, the specific courses which will satisfy a particular requirement are listed under the requirement. The contents of a course, rather than the department in which it is taught, determines its placement. The same course may satisfy several requirements and/or be included in the major program.

Foreign Language: A student must demonstrate proficiency by completing the equivalent of the intermediate level college course in a foreign language, modern or ancient. Students who, upon admission, present four units of a single language have satisfied the language requirement. A student may also request the language department to declare proficiency on the basis of an individual's record.

A student whose native language is one other than English is exempt from this requirement upon successful completion of English 101, Writing Workshop, or upon exemption from that course.

Writing: As a freshman, sophomore, junior, and senior at Mary Washington College, every student must successfully complete one course that is designated Writing Intensive. Writing Workshop will normally be the freshman Writing Intensive course; students exempted from Writing Workshop by the Department of English, Linguistics, and Speech will take some other Writing Intensive course during their freshman year.

Writing Intensive courses teach writing appropriate to the course and demand a minimum number of pages of clear prose in short essays, laboratory reports, or long papers. Writing is assigned and returned with constructive comments throughout the semester.

Approved Courses

Anthropology 101, 102

Art History 220, 240, 470D

Biology 250, 311, 322, 351, 363, 352S, 364, 391

Business Administration 300, 490

Chemistry 319, 320, 387, 423

Classics 202, 203

Classics/Philosophy/Religion 200

Drama 211, 212, 331, 332, 381

Economics 351, 352, 362

Education 322, 324, 402, 420

English 101, 201, 211, 212, 221, 222, 233, 234, 235, 236, 241, 242, 300, 301, 302, 303, 316, 315, 319, 320, 325, 326, 333, 336, 457C

French 291, 292, 293, 391, 392

Geography 306, 307, 422, 480

Geology 311

German 291, 292, 391, 392

Historic Preservation 301, 307, 401, 403, 405, 420

History 305, 380, 411, 412, 471B, 471E, 471F, 471I, 471P, 471S, 481, 495

Italian 291, 292, 315, 316, 371, 372, 381, 382

Latin 212, 303, 314

Mathematics 207

Music History and Literature 251, 377

Philosophy 250, 321, 322, 371, 372, 373

Political Science 302, 356, 357, 360

Psychology 320, 373, 380, 381

Public Administration 311, 401

Religion 231, 341

Spanish 291, 292, 315, 391, 392, 395

Laboratory Experience: Each student must successfully complete one course fulfilling the laboratory requirement. Such a course will provide exposure to the scientific method. Students will develop an observation, pose a problem and a hypothesis, and design an experiment to test the hypothesis. After collecting data, the student will analyze it and subsequently reject or accept the hypothesis.

Approved Courses

Biology 121, 122, 251, 361, 362, 382, 384, 385

Chemistry 105, 106, 111, 112

Geology 111

Physics 105, 106

Psychology 374, 381

Physical Education: A minimum of 2 credits of Physical Education or Dance, taken in different semesters, must be included; and a maximum of 8 credits in Physical Education may be included in the 122 credits required for graduation.

Distribution Areas: These courses especially ensure that students become familiar with different aspects of the liberal arts.

Natural World - (6 credits)

Courses in the Natural World describe some part of our continuing physical environment. Most of these courses are in the traditional sciences.

Approved Courses

Biology	121	Biological Concepts I
	122	Biological Concepts II
	202	Heredity and Evolution
	231	Botany
	252	General Ecology
Chemistry	105	Introduction to Chemistry I
	106	Introduction to Chemistry II
	111	General Chemistry I
	112	General Chemistry II
Geography	202	Introduction to Physical Geography
Geology	102	Oceanography
	111	Introductory Geology
	112	Earth History
Physics	103	Elementary Astronomy I
	104	Elementary Astronomy II
	105	University Physics I
	106	University Physics II

Human World - (9 credits divided between at least two disciplines)

Courses in the Human World pay attention to the physical and mental environments humans create for themselves. Though all live in the natural world, all live in society, too; Human World courses examine these cultural environments.

Approved Courses

Anthropology	101	Introduction to Cultural and Social Anthropology
	102	Introduction to Physical Anthropology and Archeology
	201	North American Indians
Biology	251	History of Biology
Classics	206	Greek and Roman Religion
Classics/Philosophy/Religion	200	Introduction to Women's Studies
Economics	101	Elements of Economics
	201	Macroeconomics
	202	Microeconomics
Geography	101	World Regional Geography
	221	Geography of Eastern Anglo-America
	222	Geography of Western Anglo-America
Linguistics	101	Introduction to Linguistics
	201	Issues in Sociolinguistics and Anthropological Linguistics
Psychology	101	General Psychology I
	102	General Psychology II
Religion	105	Introduction to Religion
	204	Archeology and The Bible
Sociology	101	Principles of Sociology
	102	Social Problems

Abstract Thought - (3 credits)

Courses in Abstract Thought describe any one of several self-contained systems of analysis. The courses concern themselves with the ways one establishes the validity of statements and organizes them into logical sequences. Such courses are found in disciplines ranging from music, through mathematics and philosophy, to business.

Approved Courses

Business Administration	231	Principles of Accounting I
	232	Principles of Accounting II
Computer Science	101	Introduction to Computers
	211	COBOL
	221	FORTRAN
Mathematics	111	Precalculus
	121	Calculus I
	200	Introduction to Statistics
Music	181	Introduction to Music Theory
Philosophy	151	Logic and Language
	152	Introductory Logic and Computers
Psychology	261	Statistics and Research Methods

Intellectual Frameworks - (9 credits divided between at least two disciplines)

Courses in Intellectual Frameworks identify and explore patterns in time. They might examine the ways that the cultural values of one era interact, or trace a common element through several eras. Courses in Intellectual Frameworks are found in most departments of the College.

Approved Courses

Biology	250	Bioethics
Classics	205	Mythology
English	235	Tragedy
	236	Comedy
	242	Myth in Literature
	243	Women in Literature
Geography	201	Introduction to Cultural Geography
History	101	Early America
	102	Middle America
	103	Modern America
	111	Western Civilization: The Classical Era
	112	Western Civilization: The Medieval Era
	113	Western Civilization: The Early Modern Era
	114	Western Civilization: The Modern Era
Mathematics	207	Mathematics and Humanity
Music History and Literature	275	The Great Composers
Philosophy	101	Philosophical Questioning
	111	Morals and Society
	244	History of Scientific Thought
	250	Bioethics
Political Science	101	Introduction to Political Science I
	102	Introduction to Political Science II
Religion	111	Introduction to History of Christianity
	117	Introduction to Christian Theology
	270	Death and Resurrection
Russian	215	Russian Culture
	295	19th Century Literature in Translation
	296	20th Century Literature in Translation

Modes of Creativity - (9 credits, divided between at least two disciplines; 3 credits must be in literature)

Courses in Modes of Creativity examine how human inventiveness takes form in the arts. Such courses are found in art, art history, music, and the various literature departments.

Approved Courses

Art	114	Survey of Art History I
	115	Survey of Art History II
Art, Studio	101	Two Dimensional Design
	102	Three Dimensional Design
Classics	201	Classical Motifs in Literature
	202	Greek Tragedy
	203	Ancient Comedy
Drama	111	Introduction to Theatre
	131	Stagecraft I
	132	Stagecraft II
	211	Survey of World Drama I
	212	Survey of World Drama II
	218	Voice and Body Movement
Education	205	Children's Literature (Does not satisfy literature requirement)
English	211	Survey of English Literature I
	212	Survey of English Literature II
	221	Survey of American Literature I
	222	Survey of American Literature II
	231	Short Fiction
	232	The Novel
	233	Poetry
	234	Shakespeare
	241	Literature of Fantasy
French	297	Survey of French Literature I
	298	Survey of French Literature II
	299	Survey of French Literature III
German	295	Introduction to German Literature I
	296	Introduction to German Literature II
Interdisciplinary	201	The Creative Process in Art and Literature
Music History and Literature	155	Introduction to Music
	251	Music in Concert
	261	Topics in Music I
	262	Topics in Music II
Philosophy	212	Aesthetics
Religion	271	Studies in Faith and Literature
Spanish	295	Introduction to Spanish Literature I
	296	Introduction to Spanish Literature II
Speech	207	Literature in Performance

B. Major Program

A major program within a single discipline requires a minimum of 30 credits, but no more than 40 credits. Students must take at least one-half of their major program at Mary Washington, earning a grade point average of 2.00 in these courses. See the "Academic Departments and Programs" section from information on the various regular, interdisciplinary, cooperative, and special majors offered by the College.

No more than 9 credits may count in two major programs. Overlapping credits in excess of 9 constitute an interdisciplinary major program, which must be approved by the Committee on Special Programs. Students majoring in Business Administration, Economics or Public Administration may not double major in any of these disciplines.

C. Electives

Students must complete enough additional courses to total 120 semester credits, exclusive of the required one year (two credits) of physical education. No student may count more than 55 credits in a single discipline toward the 122 credits required for graduation.

II. B.A./B.S. ALTERNATE PROGRAM

Students with exceptional backgrounds and special interests may apply for the Alternate Degree Program, which allows for greater concentration than the regular degree program. In an alternate degree program, up to one half of the total program may be taken in a single discipline, up to three quarters in a single area. At least one quarter of the total credits must come from an area other than the one including the major discipline. Students interested in the alternate degree program should apply to the Committee on Special Programs before the beginning of the junior year.

Second Degree

A student who has earned a bachelor's degree from MWC and wishes to pursue further work has the option of either completing an additional major and having this major noted on the transcript (with date of completion) or earning a second degree if it is different from the first, e.g, a B.A. if the first degree was a B.S., or vice versa.

For the second degree, the student must:
(a) Earn at least 30 credits at Mary Washington after completing the first degree;
(b) Complete all major requirements in the new discipline as approved by the department chairperson and the Academic Dean.

Students who earned the first degree at another institution would have to complete the requirements for the second degree, as outlined above, and would also have to satisfy all other MWC requirements.

BACHELOR OF LIBERAL STUDIES

In addition to the degrees Bachelor of Arts and Bachelor of Science, the College offers the degree of Bachelor of Liberal Studies for men and women, 24 years of age and older, who have a strong desire to consummate their learning in a baccalaureate degree. Learning acquired through life and work may be converted to college credit, and credit previously earned in other institutions may also apply toward this degree.

Students who are currently enrolled in the BA/BS degree program and who have completed 31 hours at MWC may not enroll in the BLS program.

The candidate for the Bachelor of Liberal Studies degree works closely with a faculty mentor, and an individually designed program incorporates the student's past experience and present goals. Students proceed at their own pace toward completion of the program.

Degree Specifics. The Bachelor of Liberal Studies degree requires 120 semester hours, distributed in three categories: general education, electives and core area. The student must demonstrate competence in English and earn at least 30 credts in graded classroom courses. At least 30 credits must be taken at Mary Washington College after admission to the program. A quality-point average of 2.00 on all Mary Washington College course work is also required. Some students are required to complete BLST 0100, Orientation Seminar (one credit), an introduction to study skills. Others may wish to enroll in BLST 0100, Portfolio Development (one credit), for assistance in developing portfolios that document learning gained through life and work for possible conversion to academic credit.

General Education. Courses totaling at least six credits are required in each of the following areas, and no course may be scored in more than one category.

Humanities—art appreciation, art history, classics, drama, history of film, literature, music appreciation, music history, philosophy, religion.

Social Sciences—anthropology, economics, geography, history, linguistics, political science, psychology, sociology.

Natural Science and Mathematics—astronomy, biology, chemistry, geology, mathematics, physics.

Communication Arts—art theory, computer language, creative writing, foreign language, logic, music theory, performing arts, photography, speech, studio arts.

Electives. A maximum of 56 credits may be taken in electives.

Core Area. Forty credits must be taken in a core area, which consists of a coherent group of subjects organized to create a specialty or concentration. A regular liberal arts major offered by the College may be used, or an interdisciplinary concentration may be created from the offerings of several departments. For the degree, courses counted in this area must have a quality-point average of 2.00, and at least one-half of the forty credits must be in upper-level courses.

Competence in English Composition. Each student must demonstrate competence in English Composition. This may be accomplished by completing English 101, Writing Workshop, completion of a comparable writing course, or by certification from the English Department.

Classroom Experience. At least 30 credits must be earned by direct classroom experience at Mary Washington or at another institution.

Residence Credit or Equivalent. Thirty semester hours must be completed after admission to the Bachelor of Liberal Studies Program at Mary Washington, or in a program supervised or approved by the College at another institution.

Senior Citizens

Provided that space in classes is available, legal residents of Virginia 60 years of age or older may take courses at reduced or waived fees. See the section entitled "Fees and Assistance".

Senior citizens should request information about application procedures from the Associate Dean for Academic Services.

POLICIES AND PROCEDURES

At Mary Washington College, standards have been set to provide for a smoothly run academic program. Rules and regulations guarantee that all students are treated fairly in both their academic and non-academic lives. The Student Handbook, issued by the Dean of Students, describes non-academic policies.

For academic procedures, students and faculty consult this Catalog and the Dictionary of Academic Regulations, a detailed reference to all academic regulations. Both the Catalog and the Dictionary are for the convenience and information of the student. Neither should be interpreted as an irrevocable contract. Academic policies, procedures, and degree requirements are listed according to standards in effect at the time of printing and are subject to change at the discretion of the College. All changes are announced by mail or in "This Week," the official campus newsletter. If a change affects the student's program, it is the student's responsibility to adjust that program accordingly or to obtain written confirmation from the Academic Dean for any variation. (The Dean welcomes questions and requests concerning the interpretation and application of academic policies and procedures.)

Since the final responsibility for meeting all degree requirements rests with the students, they should have complete knowledge of regulations pertaining to the academic program of the College. The Dictionary is distributed to each entering student and will be updated periodically.

Honor System

Since 1944, the students of Mary Washington College have lived under the Honor System. Although its constitution is occasionally revised, the Honor Code has remained basically the same throughout the years. The Honor Council retains sole control of its operations and is responsible to the student body, which derives its authority to establish the Honor System from the Board of Visitors. Because of the nature of the Honor System, final responsibility lies with the Board of Visitors, but all enforcement is in the hands of students.

The Honor System provides that a student shall act honorably in all facets of campus life. Lying, cheating, stealing, or breaking one's word of honor are considered infringements of the system, and the penalty for violation, as determined by the Honor Council, may be dismissal from the College. The pledge required on quizzes, examinations, and other classwork means that the work the student submits to an instructor is the student's own and has been completed in accordance with the requirements for the course as laid down by that instructor.

All students must understand that by accepting admission to Mary Washington, they make a commitment to the provisions of the Honor Code. Upon entering the College for the first time, every student is given a copy of the complete Honor Code and is expected to become familiar with its provisions. (See the Student Handbook for a copy of the Honor Constitution.) Student counselors interpret the Honor System to all new students before they are asked to sign a pledge card stating that they understand what is expected of them and they realize that a plea of ignorance will not be accepted by the Honor Council. Registration as a student is not considered complete until this card has been signed.

Calendar

Mary Washington College uses a calendar of two semesters and one summer session. The fall semester begins in late August and ends in December; the spring semester begins in January and ends in May. Since it is an integral part of the school calendar, the summer session permits the completion of a full semester's work.

Course Load

If a student intends to graduate in eight semesters, normal progress toward a degree is as follows: a minimum of 28 credits completed for the first two semesters and 15 to 16 credits completed during each of the remaining six semesters, for a total of 122 credits.

Under this definition of normal progress, students are classified as follows: freshmen, fewer than 28 credits; sophomores, 28 to 57 credits; juniors, 58 to 89 credits; seniors, 90 credits or more.

Students wishing to accelerate and graduate in fewer than eight semesters, will consistently take 17 or 18 credits each semester and attend summer sessions. In this way, a student can graduate in three calender years. Without special permission, no student may carry more than 18 credits (17 for first semester freshmen, 16 for students on probation).

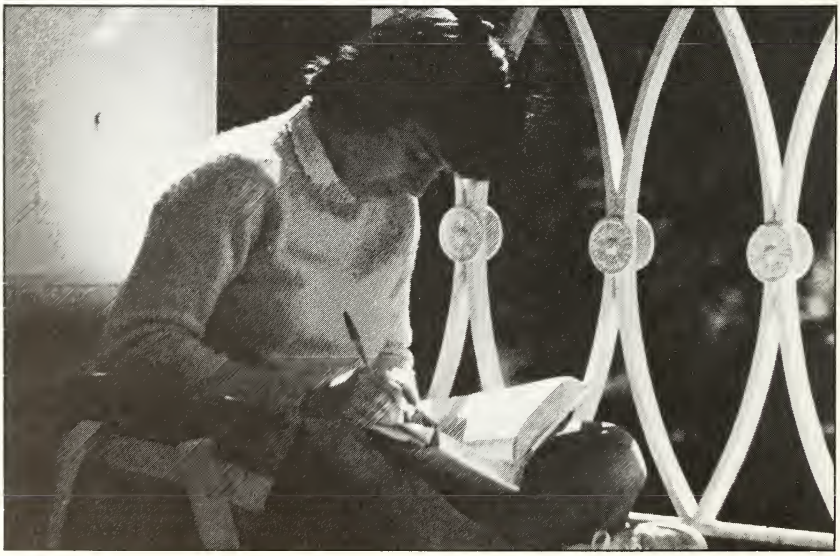
To live in a residence hall, students carrying fewer than 12 credits must have permission from the Office of Academic Services. Students receiving financial aid, if they wish to carry fewer than 12 credits, should also notify the Office of Admissions and Financial Aid.

Attendance

As an academic community, Mary Washington College functions to increase its members' knowledge of the natural and social environments in which they live. For the benefit of the community and for the benefit of its individual members, certain responsibilities must be accepted.

Students have the primary responsibility of satisfactorily attending their classes, whether they be seminar, performance, laboratory, or lecture courses. Learning requires active participation, whether it be in reinforcing a physical skill, discussing ideas, or solving a complex theoretical problem. Important to this experience is the sharing of ideas and knowledge, a sharing the student best achieves by attending all sessions of a course.

While the student has the responsibility of deciding to attend a particular class, the College has the right and responsibility to set conditions for those students who are absent too often.



Whether present or not, students are responsible and accountable for all tests, assignments, material covered, and announcements made in class.

College policy requires the following procedures in all 100- and 200-level courses:

(1) When a student's absences become excessive, that is, the equivalent of two weeks of class, the student will be notified that continued absences will result in forced withdrawal from the course when the total reaches the equivalent of three weeks of class.

(2) Withdrawal will result in a passing or failing grade, according to the regulations for all withdrawals from courses.

In courses other than 100- or 200-level, the instructor sets attendance policy. No policy can be stricter than that for 100 and 200 level courses, and policies must be communicated to students, in writing, at the beginning of each course.

The student is responsible for keeping track of his/her attendance. Classes missed during the "add period" count as absences.

A student who has missed classes while in the Health Center should tell the instructor, who may call the College physician for advice on working with the recovering student. Students under the care of a doctor should request of him a memo of confirmation to present to their instructors. A student unavoidably absent for a week or more, due to hospitalization, serious illness, or a sudden emergency, should notify the Office of Academic Services as soon as possible. If appropriate, this Office will inform instructors of the student's circumstances; however, this in no way implies an "excused" absence or relieves the student of responsibility for coursework.

Students faced with unavoidable extended absences should consult with not only their instructors but also the Office of Academic Services to discuss the advisability of withdrawing for the semester.

Grading

Academic performance in any course is rated according to the following system, which is printed on all grade reports:

A	unusual excellence
B	work distinctly above average
C	work of average or medium quality
D	the lowest passing mark, work of below average quality
F	failure (result: no credit in the course)

AP	testing service examination passed (advanced placement)
CH	challenge examination passed
CI	test incomplete (test failed for credit-by-examination)
CR	test out (credit-by-examination)
FA	failure in a pass/fail course, (result: no credit in course)
FW	withdraw failing from a pass/fail course
G	delayed grade
I	incomplete, (illness or emergency in the final portion of a semester has prevented the student from finishing the course.)
IA	incomplete, as above, in a pass/fail course
PA	pass in a pass/fail course
PW	withdraw passing from a pass/fail course
SA	satisfactory in a physical education or 100-level dance course
UN	unsatisfactory in a physical education or 100-level dance course (result: no credit in the course)
WF	withdraw failing from a graded course
WP	withdraw passing from a graded course

Grade-Point Average. Each grade, A through D, carries a number of quality points which when multiplied by the number of course credits, gives the number of quality points for the course. A grade of "A" carries four; "B" carries three, "C" carries two, and "D" carries one. Thus, a three-credit course with a grade of "A" provides 12 quality points; a four-credit course with a grade of A provides 16 quality points, and so on.

The student's grade-point average is computed by dividing the total units, or credits, graded into the total quality points. On the grade report the units indicated do not include credit-by-examination work, transfer credits, physical education credits, or pass/fail credits. They do, however, include units graded for failed courses.

Mid-Semester Progress Reports. In the middle of each semester, students are notified of their standing in every course: S=satisfactory; U=unsatisfactory; N=no determination of progress possible at this time.

Though not entered on a student's permanent record, nor sent to parents or guardians, mid-semester notifications also go to the Office of Academic Services, and to the major adviser if the student has declared a major. Any "U" should be taken seriously by the student as a warning that significant improvement is needed. The student is urged to consult instructors and advisers for assistance.

The quality of work that determines a mid-semester report of "S" or "U" will be explained in the course syllabus distributed during the first week of classes.

Repeating Courses. A student may repeat a course in which a grade of D, F, or FA has been recorded. No course may be repeated more than once. No more than two courses can be repeated in a single semester, and no more than seven courses may be repeated while the student is enrolled at the College.

Pass/Fail Option. With the approval of an academic adviser (for undeclared majors) or a major adviser (for declared majors), a student may take one course each semester or each summer on a pass/fail basis, with a maximum of eight pass/fail courses during the entire degree program. A grade of PA (pass) does not affect the grade-point average, but a grade of FA (failure) in a pass/fail course counts the same as an F in a graded course and will lower the grade-point average. A student may take a pass/fail course and a physical education course in the same semester. The decision to take a course pass/fail must be made within the first two weeks of the semester. Before electing to use the pass/fail option, a student should consider its effect on the opportunity to earn academic awards and distinctions, for these are calculated on a specified minimum number of graded credits.

Credit-by-Examination. An enrolled, degree-seeking student may request from a department a special examination in any course for which an examination is appropriate. If the student passes the examination, the course and a grade of CR are recorded on the permanent record to indicate credits earned. Quality points, however, are not awarded. If a student fails the examination, a grade of CI is recorded. Should the latter occur, the student must enroll in the course the next semester it is offered. The student's earned grade, with attendant quality points, will replace the grade of CI. Should the student not so enroll, the CI will be converted to a grade of F. There is a charge for each examination. Credit-by-examination is not available for seminar, individual study, studio, or laboratory courses, nor for any course in which the student has been enrolled or has been in attendance.

Transfer Credit

Students may apply to take courses at another institution. Such requests may be for individual courses or for a semester or year (usually for study abroad). In the latter case, if the program is approved, the student will be granted a study leave for that period. In either case, transfer credits will be accepted only if the courses or programs are approved in advance by the Office of Academic Services.

For credit, transfer courses must neither overlap nor repeat those the student takes at Mary Washington, and a grade of "C" or better must be earned.

The student must have an official transcript of the transfer credits sent directly to the Office of Student Records. After evaluation, credit for approved courses will be recorded.

Courses taken at other institutions while a student is on academic suspension are not accepted for transfer credit.

Course loads apply to all courses taken in the same semester, including those taken at other institutions. If a student takes courses at Mary Washington and another institution in the same semester and the total is more than the allowed course load, the credits from the other institution are not accepted for transfer credit unless specific permission, in advance, has been given by the Academic Dean.

Grades earned in transfer work do not affect the student's grade point average at Mary Washington College; only credits successfully completed are counted.

Continuing at the College

Degree-seeking students are asked to indicate each year their intention to return for the Fall semester. A form mailed early in the spring semester must be returned by a specified date with a $10 processing fee and a $100 room deposit for dormitory students, or a $50 fee deposit for commuting students. Returning form and room deposit by the deadline guarantees residential space.

Students who submit forms and deposits after the deadline may have to wait for residential accommodations.

The $10 processing fee is nonrefundable; the $100 room deposit or $50 fee deposit applies to the student's account for the following session. It is not normally refunded after a specified date unless the student is ineligible to continue, or unless the Vice President for Business and Finance and the Vice President for Admissions and Financial Aid agree that unusual circumstances justify a refund.

Although the College makes every effort to furnish to enrolled students the forms necessary for continuing, it is the student's responsibility to file the form. These forms and instructions are available from the Office of Admissions and Financial Aid.

Withdrawal from the College

A student who wishes to withdraw from the College during the semester must notify the Office of Academic Services in person, and, if a minor, must have the written consent of parent or guardian. The College requests that the student also meet with an academic adviser in the Office of Academic Services. The student may request to be placed on leave of absence at the time of withdrawal. It will then be determined whether, upon applying for readmission, the student is to have his or her application reviewed by the Readmission Board.

Academic Probation and Suspension

Probation and suspension warn students that they are not doing satisfactory work, stimulate them to improve their performance, or, finally, serve notice that the institution does not choose to allow them to continue because there is little or no likelihood of their finishing successfully.

The academic progress of a full-time student will be evaluated at the end of the Fall and Spring semesters, and at the end of the summer if the student has taken 12 or more graded credits during the summer. The progress of a part-time student will be evaluated whenever his or her total number of graded credits increases by 12 or more.

Probation. A student is placed on probation whenever the student's GPA falls

below 2.00. A student on probation may continue at the College provided he or she continues to make acceptable progress toward a 2.0 GPA. (See Table 1 in order to determine acceptable progress.)

In determining probation or suspension for transfer students, the number of credits graded will include all accepted transfer credits as well as MWC credits; the GPA, however, will be calculated on MWC credits only. No transfer student will be suspended after only one semester (or the equivalent) at the College.

Suspension. Students who do not make satisfactory progress while on probation will be suspended. The College's probation and suspension policy is summarized in Table 1.

Table 1

Total # of Graded Credits (MWC & transfer)	Probation (Overall GPA)	Suspension (Overall GPA)
12-15	less than 2.00	
16-30	1.65 - 1.99	less than 1.65
31-45	1.80 - 1.99	less than 1.80
46-60	1.95 - 1.99	less than 1.95
61 & above		less than 2.00 for any two semesters, which need not be consecutive.

As appropriate, "Academic Suspension" is stamped on the student's permanent record. A suspended student may not register for any classes at MWC (semester or summer) until the term of suspension expires. Courses taken at another institution while a student is on suspension are not accepted by MWC for transfer credit. A student suspended for the first time will be automatically suspended for either one or two semesters, as shown in Table 2. A student suspended for a second time (permanent suspension) is ineligible to obtain a degree from MWC. A first-time suspended student who wishes to continue must indicate to the Readmission Board, in writing, that he or she intends to re-enroll. The Readmission Board will then extend a readmission contract to the student, who, on formally accepting the contract, will be assured continuance at MWC at the conclusion of the suspension period. The readmitted student may take classes in the fall or spring semester which follows the conclusion of the suspension period. A student coming off suspension in the spring is not eligible to take courses during the Summer Session.

Table 2

Total # of Graded Credits (MWC & transfer)	Suspension for one semester plus summer	Suspension for two semesters plus summer(s)
	(Overall GPA)	(Overall GPA)
16-30	1.50 - 1.64	less than 1.50
31-45	1.65 - 1.79	less than 1.65
46-60	1.80 - 1.94	less than 1.80
61 & above	1.90 - 1.99	less than 1.90

Cases which go beyond the scope of this regulation will be handled on a case-by-case basis by the Academic Dean.

Readmission

After Study Leave, Leave of Absence, or Withdrawal. At the time a student requests study leave or a leave of absence, or withdraws during a semester, the student will be told whether or not readmission will be automatic. If automatic, the student applies for readmission directly to the Office of Admissions.

Although every effort is made to send forms for continuance to students who so request, they must assume final responsibility for securing, completing, and returning the forms. Except in unusual circumstances, students returning from a planned leave of absence may expect to resume studies without difficulty. They should apply as soon as possible, especially if they wish residential accommodations.

If readmission was not designated automatic at the time the student left Mary Washington, the student must apply to the Readmission Board, which will review the application. If the student has attended another institution, the work there as well as that at Mary Washington will be considered. To give the Board time for review, returning students in this category must apply for readmission no later than two weeks before the opening of the semester.

Non-Academic Suspension. Students suspended from the College for other than academic reasons should apply for continuance to the Vice President for Admissions and Financial Aid.

ACADEMIC DEPARTMENTS AND COURSES OF STUDY

Mary Washington College, through its nineteen academic departments, offers a variety of academic majors and other programs. There are 25 disciplinary majors and six interdisciplinary majors. Some departments also offer special programs within the major. e.g., astronomy within the physics major, cartography within the geography major, and communications within the English program.

Course titles and numbers are given in a bold-face type, followed in parentheses by the number of semester credit hours. Courses are offered at least once a year unless otherwise noted, e.g., Fall 1985 means the course will be offered only once in 1984-86. Such notations are subject to change based on student needs and faculty availability. Therefore, the student should consult the schedule of courses, issued prior to the beginning of each semester, for specific semester offerings. The schedule of courses also gives the number of class meetings per week, the time and place of classes, and the name of the instructor. Before enrolling in a course the student should check the listed prerequisites.

Course offerings are either lower level (100 and 200) or upper level (300 and 400). Courses numbered 100 through 199 are ordinarily elementary or introductory. Courses numbered 200 through 299 may assume prior study or some competence in the subject, acquired in secondary school or in college. Courses numbered 300 through 498 are advanced courses and can be expected to assume either previous course work or special competence in the field. Courses numbered 499 are internships. Individual study courses offer learning opportunities in areas or subjects not covered by regular courses.

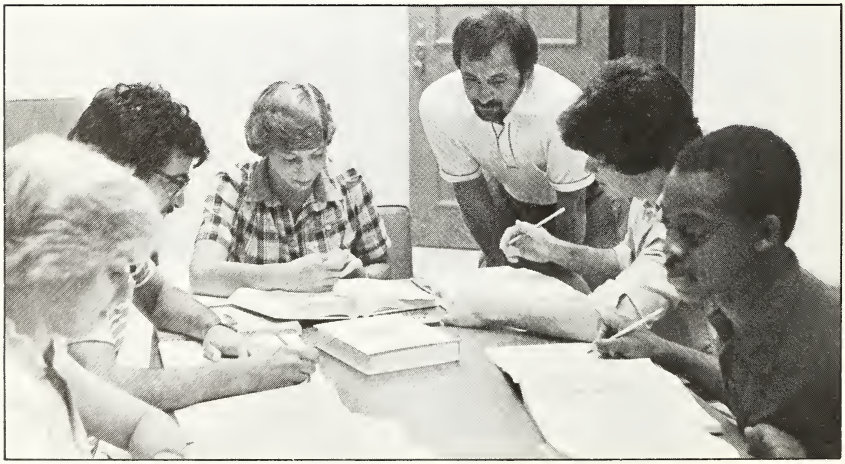
Special Notes

(1) No course may be taken for credit which is a prerequisite (or introductory to) a course already successfully passed.

(2) Continuous courses are those designed to be taken in a year-long sequence. If a pair of continuous courses is marked "only in sequence" at the end of the Catalog description, the first course is, without exception, prerequisite to the second.

If a pair of these "only in sequence" courses is also marked with a hyphen (for example, French 101-102), any student who does not complete the sequence will have that fact noted on the transcript by the phrase "one-half of a year course".

If the continuous courses have neither a hyphen nor an indication "only in sequence," the material in the second semester is not dependent upon the material in the first. A student may take either or both courses, and in any order.



American Studies

See Department of History and American Studies

Anthropology

See Department of Sociology and Anthropology.

Department of Art

Joseph Dreiss, *Chairperson*
Cornelia Oliver, *Career Advisor - Art History*
Lorene Nickel, *Career Advisor - Studio Art*

Faculty

Professors:
Barbara Meyer
Paul Muick
Cornelia Oliver

Associate Professors:
Joseph DiBella
Joseph Dreiss

Assistant Professors:
Steven Griffin
Lorene Nickel

The Art Department offers two distinct but interrelated majors. Studio Art provides students with the technical and theoretical know-how to produce works of art. Art History offers students the knowledge of works of art already produced, and the research skills necessary to discover new knowledge about them. The Art Department is fully equipped to serve both these majors, with excellent studio facilities, and an extensive slide library.

Art History

The Art History major explores in chronological sequence the entire span of Western art within its proper cultural, philosophical and historical context. In addition to slide lectures and the availability of an exceptional art library, students are introduced to art first hand, through faculty supervised field trips to Washington, D.C., Baltimore and Richmond. Regularly held lecture series given by visiting art historians keep students abreast of the most recent developments in the field. An internship program allows students to get valuable experience and career contacts working in museums and art institutions in the greater Washington, D.C. and Richmond areas. An Art History Club also provides students with additional opportunities to travel.

Requirements for the Major

ARTH 114, 115, 201. Thirty (30) additional credits in Art History, including at least one 400-level research-oriented course; one course from each of the following chronological periods: Ancient, Medieval, Renaissance, Baroque and Modern.

Course Offerings

114 - Introduction to the History of Art (3)
Survey of Western architecture, painting and sculpture from the Prehistoric period to 1400. Staff (Each Semester).

115 - Introduction to the History of Art (3)
Prerequisite: ARTH 114. Survey of Western architecture, painting and sculpture from 1400 to the present. Staff (Each Semester).

201 - Methods of Art History (1)
Philosophy of Art Historical methodology; historical background of the discipline; to be taken, when possible, prior to advanced level courses in the major. Staff (Each Semester).

220 - History of Graphics (3)
Prerequisites: ARTH 114, 115. The history of European prints and printmaking from the 15th century to the present. (Does not fulfill any Art History requirements). Oliver (Fall 1986).

240 - Architectural Principles and Concepts (3)
A conceptual approach to architecture discussing: plans and elevations, materials, techniques, types of structures, architectural decorations, form and function, location, interior space, social-political-economic impact, symbolic meanings, architectural forms of the future and other issues. (Does not fulfill any Art History major area requirements). Staff (Spring 1987, Spring 1988).

310 - Greek Art (3)
Prerequisite: ARTH 114. Development of Greek art from the early Iron Age through the Geometric, Archaic, Classical and Hellenistic periods. Oliver (Fall Semester).

311 - Roman Art (3)
Prerequisite: ARTH 114. Roman art from the Italo-Etruscan period to the end of the Roman Empire. Meyer (Spring 1988).

323 - Medieval Painting (3)
Prerequisite: ARTH 114. A study of mosaic, fresco, and tempera painting and manuscript illumination principally in France and Italy. Meyer (Fall, 1987).

324 - Medieval Architecture and Sculpture (3)
Prerequisite: ARTH 114. Sources and formulation of medieval architecture in Europe from the pilgrimage church through the development of the Gothic cathedral, as accompanied by the re-emergence of monumental architectural sculpture, from 1000 to 1400. Meyer (Spring 1987).

330 - Northern European Art, 1400 to 1600 (3)
Prerequisites: ARTH 114, 115. Painting in the Lowlands, France, and Germany from the late medieval period through the 16th century. Oliver (Spring 1988).

331 - Italian Renaissance Painting (3)
Prerequisites: ARTH 114, 115. Painting of the Italian Renaissance, its origins in the social and intellectual climate of the periods. Oliver (Fall 1987).

332 - Italian Renaissance Architecture and Sculpture (3)
Prerequisites: ARTH 114, 115. Major works of architecture and sculpture in Renaissance Italy, including the historical and theoretical bases for these arts. Meyer (Spring 1987).

340 - Northern Baroque Art (3)
Prerequisites: ARTH 114, 115. 17th century art in Belgium, Holland and France with emphasis on Rubens, Rembrandt and Poussin. Dreiss (Fall 1987).

341 - Italian and Spanish Baroque Art (3)
Prerequisites: ARTH 114, 115. Painting, architecture and sculpture of the 17th century in Italy and Spain. Oliver (Spring 1987).

342 - Eighteenth Century Art (3)
Prerequisites: ARTH 114, 115. Concentration on the French Rococo and its evolution into Neoclassicism; decorative arts; English and Italian painting. Dreiss (Spring 1988).

343 - Georgian Art (3)
Prerequisites: ARTH 114, 115. British art, architecture and aesthetics; portraiture, landscape painting and gardening; Palladianism; Britain as a font of Romanticism. Staff (Upon Demand).

350 - Nineteenth Century Art (3)
Prerequisites: ARTH 114, 115. Painting and sculpture in Europe with emphasis on French Art; Neoclassicism, Romanticism, Realism and Impressionism. Dreiss (Fall Semester).

351 - Twentieth Century Art (3)
Prerequisites: ARTH 114, 115. From Post-Impressionism to Contemporary art in painting and sculpture. Dreiss (Spring Semester).

352 - American Art (3)
Prerequisites: ARTH 114, 115. A survey of American painting and sculpture with emphasis on the 19th and 20th centuries. Dreiss (Fall 1986).

360 - Architecture of Colonial America (3)
Prerequisites: ARTH 114, 115. Emergence of an indigenous American architecture with emphasis on regional and cultural influences to 1800. (Does not fulfill any Art History major area requirements). Staff (Fall 1987).

361 - Nineteenth Century Architecture (3)
Prerequisites: ARTH 114, 115. Development of nineteenth century architecture from its roots in Neoclassicism. Form, style, technology, as related to historical sources with emphasis on revival architecture. Staff (Fall 1986).

362 - Twentieth Century Architecture (3)
Prerequisites: ARTH 114, 115. Twentieth Century architecture in America and Europe, with emphasis on important monuments, styles and individual architects. Staff (Spring 1987).

470 - Special Studies in Art History (3)
Prerequisites: ARTH 114, 115. Concentration in seminar format on an individual artist, specific problem, limited time period, or theme; for Art History majors and other qualified students. Staff (Each Semester).

491, 492 - Individual Study in Art History (3, 3)
Prerequisites: ARTH 114, 115, and at least three Art History courses in three different chronological periods; for Art History majors only. Faculty approval of research project, oral presentation and major paper. Vehicle for those seeking honors in Art History. Staff (Upon demand).

ARTH 499 - Internship (credits available)
Supervised off-campus experience developed in consultation with the Art History faculty. May not be used to satisfy the Art History 400-level research course requirement. Staff (Upon Demand).

Studio Art

The purpose of the Studio Art major is to teach fundamental skills, increase aesthetic sensibilities, and further the student's individual developments in the following media: ceramics, drawing, painting, printmaking, sculpture, photography and textiles. Individual studies allow students to develop advanced and specialized skills in particular media or areas through a one on one relationship with instructor. Local area internships provide students with professional experience.

Requirements for the Major

ARTS 101, 102; 24 additional credits in Studio Art of which at least 12 must be at the 300-400 level; at least one course in each of the following media: ceramics, painting, printmaking and sculpture. Art History 115; six additional credits in Art History chosen from 200, 300 or 400 level courses.

Course Offerings

101 - Two Dimensional Design (3)
Basic study of design elements (line, shape, texture, value, color) used in visual communication, both figural and non-figural. Staff (Each Semester).

102 - Three Dimensional Design (3)
Foundation course dealing with experiments in 3-D design and architectonic constructions in a variety of media. Muick (Each Semester).

111, 112 - Beginning Ceramics (3, 3)
Basic techniques of handbuilding and wheel throwing; introduction to studio procedures including clay making, glaze preparation and application and kiln firing. Nickel (111 each Fall, 112 each Spring).

170 - Beginning Painting and Drawing (3)
Basic methods of techniques of realistic and abstract art; investigation of light and dark, color, line, composition, and design. (Does not satisfy Studio Art major requirement in painting). DiBella (Summer Only).

221 - Drawing I (3)*
Prerequisite: ARTS 101. Introduction to the basic principles of structural drawing and compostion in various media. Staff (Fall Semester).

222 - Drawing II (3)*
Prerequisite: ARTS 221. Further study of drawing principles with emphasis on compositional problems and technique in various media. Staff (Spring Semester).

231, 232 - Beginning Sculpture (3, 3)*
Prerequisites: ARTS 101 and 102. Study and construction of volume and mass using figurative and non-figurative subject matter in a variety of plastic and carving media. Muick (231 each Fall; 232 each Spring).

241 - Photography (3)
Prerequisites: ARTS 101 or ARTS 102 and permission of the Instructor. This course gives students a practical understanding of cameras and lenses along with basic darkroom techniques for printing black and white photographs. A brief study of the history of photography and basic photographic chemistry will be included. Griffin (Fall 1986).

311, 312 - Ceramics I and II (3, 3)*
Prerequisites: ARTS 111 or 112. Further exploration of wheel-thrown forms, handbuilding processes, and sculpture; experiments with glazing and firing. Nickel (Spring Semester).

313, 314 - Life Drawing (3, 3)*
Prerequisite: ARTS 221. Comprehensive linear and painterly drawing techniques using the human figure. Emphasis will range from traditional proportion and composition to experimental and personal interpretations of the figure. Staff (314 Spring 1987, 313 Spring 1988).

321 - Printmaking I (3)*
Prerequisite: one year of drawing. Intaglio and relief processes in the production of multiple originals. Griffin (Fall Semester).

322 - Printmaking II (3)*
Prerequisite: one year of drawing. Lithography and screen printing processes in the production of multiple originals. Griffin (Spring Semester).

327 - Communications Design (3)*
Prerequisites: ARTS 101, 102 and one year of drawing. Conceptualization, design, and layout of work to be reproduced in print; introduction to graphic arts processes and techniques. Griffin (Spring 1988).

331, 332 - Sculpture I and II (3, 3)*
Prerequisite: ARTS 231 or 232. Figurative and non-figurative conceptual approaches to form using a variety of media such as marble and hardwoods. Muick (331 Fall 1986; 332 Fall 1987).

343 - Painting I (3)*
Prerequisite: one year of drawing. Fundamentals of problems, concepts and materials in the study of pictorial organization with emphasis on indirect and direct techniques in oils and acrylics. DiBella (Each Fall).

344 - Painting II (3)*
Prerequisite: ARTS 343. Advanced study of painting problems, concepts and materials in the study of pictorial organization and personal expression including water media and experimental techniques. DiBella (Each Spring).

363 - Textile Design (3)*
Prerequisite: ARTS 101. Introduction to fabric construction and surface design; projects in frame and four harness loom weaving and indirect dye techniques. Nickel (Fall Semester).

460 - Special Studies in Studio Art (3)
Special courses in an area of Studio Art selected by the faculty after consultation with the students; advanced students only. Staff (Upon Demand).

495, 496 - Individual Study in Studio Art (3, 3)
Independent work under the supervision of a member of the Studio Art faculty. By permission of instructor. Staff (Each Semester).

499 - Internship (Credits variable)
Supervised off-campus experience developed in consultation with the Studio Art faculty. Staff (Upon Demand).

*Prerequisites can be waived at the discretion of the instructor.

Department of Biological Sciences

Stephen W. Fuller, *Chairperson*
Michael L. Bass, *Career Adviser - Environmental Earth Science*
Rose Mary Johnson, *Career Adviser - Biology*
Werner Wieland, Career Adviser - Allied Health

Faculty

Professors:
Michael L. Bass
Joanne G. Beck
Stephen W. Fuller
Rose Mary Johnson
Thomas L. Johnson
Mary Jo Parrish
Mary W. Pinschmidt
William C. Pinschmidt, Jr.

Assistant Professors:
Rosemary Barra
Joella C. Killian
Werner Wieland

The Department strives to create an atmosphere in which students can develop a strong background in the sciences and the intellectual independence to build on that foundation. Two major programs, Biology and Environmental Earth Science are offered.

Laboratory work enables the student to learn techniques and obtain data which support theories explored in lecture. Equipment and facilities, all of which are for student use, include a scanning, recording spectrophotometer, an ultracentrifuge, respirometers, research-grade bright field microscopes, phase contrast microscopes, fluorescence microscopes, a tissue culture laboratory, a radioisotope laboratory, recording oscillographs, a phytotron, and an aquatic studies laboratory. Equipment for ecological studies in terrestrial, fresh water and marine environments includes live animal traps, plankton and insect nets, seines, a small fleet of boats including one equipped for trawling and dredging, and fresh and salt water aquaria. Collections of microscope slides, skeletons, preserved animals and an herbarium collection of over 5,000 pressed plants are also on hand.

Biology

The Biology major is designed to ensure that students explore all basic areas, including cellular/molecular, organismic and population biology. In addition, students must take zoological as well as botanical course work. Although an outline of required course work is prescribed, the program allows enough flexibility for students to delve into an area of particular interest. While recognizing and addressing the early-career needs of basic information, concepts, and field and laboratory experience, the Department also strives to encourage students to develop their liberal arts education in a way which will enhance their ability to maximize opportunities later in their careers. Each year the Department brings in eight to ten speakers who present their research and provide biology-related job information, creating opportunities for students to broaden their educational as well as career perspectives. This is augmented by a career night in which alumni return and share their experiences in the job market. A number of our students have received jobs because of their involvement in one of the many internship opportunities which are available. These may be taken for academic credit outside of the major program.

Students who are interested in pursuing studies beyond the scope of listed courses may take the individual study course BIOL 481, Readings in the Biological

Sciences. This course may help the student define a problem worthy of field or laboratory investigation, in which case BIOL 491, Special Problems in Biology would be taken. Students who have the proper academic record may use these courses to pursue Honors in Biology. Financial support for student research is available.

Requirements for the Major

In Major Subject: Forty (40) credits in Biology courses including 121, 122, 211, 212, or 342, and 450 (Environmental Earth Sciences 460 may be substituted for BIOL 450). At least one course in each area: Cellular/Molecular (C/M), Organismal (OB), and Population Biology (PB) must be taken. One course dealing specifically with plants must be taken.

Additional Major Requirements: Chemistry 111, 112, (8 cr. hr. of other Chemistry may be substituted with prior permission of the Chairperson) is prerequisite to 211, 212, and certain other courses; therefore, both BIOL 121, 122, and CHEM 111, 112 should be taken in the student's first year.

Recommended: Organic Chemistry, other chemistry; a year of physics and of mathematics, statistics, computer science, geology, History of Scientific Thought (PHIL 244), and Bioethics.

All students must take the Graduate Record Exam Biology Test in their senior year, preferably second semester. This expense will be born by the College if prior arrangements are made with the Chairperson.

Course Offerings

121, 122 - Biological Concepts I, II (4, 4)
An introduction to biological principles and a survey of organisms. Laboratory. Staff (Fall, Spring).

202 - Heredity and Evolution (3)
Prerequisite: Biology 121. Principles of heredity, their applications to evolutionary theory, and their social implications. For non-majors only, except by permission of Chairperson. Parrish (Spring).

204 - Nutrition (3)
A survey of current information related to human nutritional needs in health and disease, demographic factors, food additives and special diets. Does not count towards required 40 credits in Biology. Staff (Spring).

211 - Cellular Biology (4) (C/M)
Prerequisites: Biology 121, 122 and Chemistry, 8 cr. hr. Study of cell structure and function. Laboratory. Bass (Fall).

212 - Genetics (4) (C/M)
Prerequisite: Biology 211. The structure, function and transmission of genetic material. Laboratory. Barra (Spring).

231 - Botany (4)
Prerequisite: Biology 121. Survey of the plant kingdom with emphasis on morphogenetic description, life histories, and evolutionary relationships. Laboratory. Fuller (Spring).

250 - Bioethics (3)
Prerequisites: Biology 121, 122. Selected topics considered from the standpoint of their biological consequences and ethical implications for man. Does not count toward required 40 credits in Biology. Staff (Fall).

251 - History of Biology (3)
Prerequisites: Biology 121, 122. Chronological development of selected biological theories and their impact on contemporary biology. M. W. Pinschmidt (Fall 1986).

252 - General Ecology (3) (PB)
Prerequisite: Biology 121. A study of the relationships of plants and animals to their environment and the maintenance of balance in nature. For non-majors except by permission of Chairperson. Bass (Spring).

301 - Anatomy of the Chordates (4) (OB)
Prerequisites: Biology 121, 122. A comparative study of the major systems of representative chordates. Laboratory. Students may not count both 301 and 384 towards the required 40 hours. T. L. Johnson (Fall).

302 Embryology of the Chordates (4) (OB)
Prerequisites: Biology 121, 122. The development of representative chordates. Laboratory. T. L. Johnson (Spring).

311 - Plant Ecology (4) (PB)
Prerequisites: Biology 121, 122. Ecological principles as applied to plants including major biomes, plant succession, competition, environmental parameters, and methods of data collection and evaluation. Laboratory. Fuller (Fall 1986).

312 - Plant Physiology (4) (OB)
Prerequisite: Biology 211. Experimental and theoretical treatment of the functional mechanisms in plants. Laboratory. Fuller (Fall 1987).

321 - Invertebrate Zoology (4) (OB)
Prerequisites: Biology 121, 122. Survey of invertebrate phyla emphasizing structural characteristics, life histories and evolutionary relationships. Laboratory. W. C. Pinschmidt, Jr. (Spring).

322 - Animal Ecology (4) (PB)
Prerequisites: Biology 121, 122, and Chemistry, 8 cr. hr. The relationship between animals and their environment. Field and laboratory studies include observations of marine, fresh water, and terrestrial animals. Laboratory. W. C. Pinschmidt, Jr. (Fall).

323 - Entomology (4) (OB)
Prerequisites: Biology 121, 122. Introduction to structure, function and ecology of insects. Students prepare insect collections. Laboratory. Killian (Fall 1986).

331 - Histology (4)
Prerequisite: Biology 211. The preparation and microscopic examination of animal tissues. Study of the relationship between function and structure of tissues and their cells. Laboratory. Killian (Spring 1988).

342 - Human Genetics (4) (OB)
Prerequisite: Biology 121. Application to the human of the principles of heredity. Laboratory. Parrish (Spring).

351 - Laboratory Techniques (4)
Prerequisites: Biology 121, 122, and Chemistry, 8 cr. hr. Introduction to instrumentation used in physiological experiments. The scientific method and experimental design are discussed and used. Barra (Spring).

363 - Environmental Physiology (4) (OB)
Prerequisites: Biology 121, 122, and Chemistry, 8 cr. hr. Experimental and theoretical treatment of the role of environmental factors in the physiology of organisms. Bass (Fall 1987).

364 - Animal Physiology (4) (OB)
Prerequisite: Biology 211. A comparative study of physiological systems in animals. Laboratory. Killian (Spring 1987).

371 - Microbiology (4) (OB)
Prerequisites: Biology 121, Chemistry, 8 cr. hr. Emphasis is placed on bacteria,

their morphology, physiology, nutrition, and ecology. Laboratory. R. M. Johnson (Each Semester).

372 - Parasitology (4) (OB)
Prerequisites: Biology 121, 122. The structure, life histories, and host relationships of invertebrate parasitic forms. Laboratory. T. L. Johnson (Spring).

384 - Human Anatomy (4) (OB)
Prerequisite: Biology 121. The structure of the human body at the cell, tissue, organ and system levels of organization. This course emphasizes laboratory work and will utilize the cat for dissection and human models as demonstrations. Students may not count both BIOL 384 and BIOL 301 toward the required 40 credits in Biology. Wieland (Fall).

385 - Human Physiology (4) (OB)
Prerequisites: BIOL 384 or BIOL 301, and 4 credit hours of chemistry. A systematic study of the physiology of the nervous system, circulation, respiration, digestion, kidney function, hormonal control, and reproduction in the human body. Laboratory will utilize modern methodology for the observation of physiological fact. Wieland (Spring).

391 - Immunology (4) (C/M)
Prerequisite: Biology 212. Introduction to the principles and theories of host defense with emphasis on antibody production, characterization and identification. Laboratory. Barra (Fall).

422S - Marine Ecology (4) (PB)
Prerequisites: Biology 121, 122, and Chemistry, 8 cr. hr. A general introduction to the marine environment with emphasis on the biological, chemical and physical aspects of various marine communities. W. C. Pinschmidt, Jr. (Summer).

423S - Research in Marine Ecology (1-2)
Prerequisite or corequisite: Biology 422S. W. C. Pinschmidt, Jr. (Summer).

442 - Evolution (3) (PB)
Prerequisite: Biology 212 or 342; open to senior biology majors only, except by permission of Chairperson. The history and development of modern evolutionary thought. Parrish (Spring).

450 - Seminar (1)
Prerequisites: Biology 121, 122. Readings, reports and group discussion on topics of historic and current biological interest. Open only to majors. Staff (Each Semester).

471 - Topics in Biology (2-4)
Prerequisites: Biology 121, additional prerequisites as appropriate to specific topic. Specialized topics not offered on a regular basis, e.g. biology of fishes, vertebrate natural history, animal behavior. Laboratory included with certain topics. Staff (Upon Demand).

481 - Readings in the Biological Sciences (1-2)
Readings in biological literature selected by the student. The student is guided by a staff member. Open to junior and senior majors by permission of Department. Staff (Each Semester).

491 - Special Problems in Biology (1-3)
Prerequisite: Biology 481. Individual laboratory or field investigation supervised by a staff member. Open to junior and senior majors by permission of Department. Staff (Each Semester).

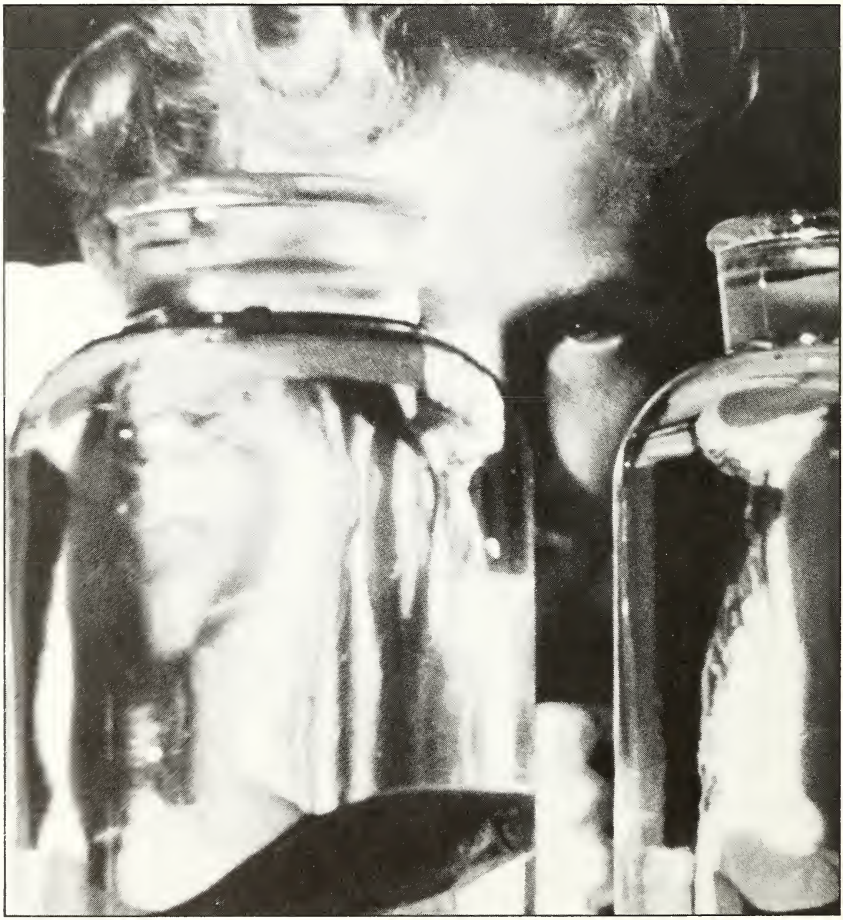
Internship
Prerequisite: Junior or senior major in good academic standing with appropriate

background. Supervised off-campus experience, developed in consultation with the Department. Credits variable. Does not count towards required 40 credits in Biology. Staff (Each Semester).

Environmental Earth Sciences

The Environmental Earth Sciences major is designed to promote the study of the linkage between mankind and the environment. The scope of this major necessitates specialization in one of two areas; students may elect to emphasize the natural science or the social science aspects. The natural science concentration will provide a background in biology, chemistry, and geology. The analytical skills available in this program of study, coupled with an appreciation for socioeconomic considerations, will prepare the student to evaluate environmental problems and work on solutions taking into consideration the limits of societal resources. The social sciences concentration focuses on the economic, political and sociological aspects of modern man. Study of the impact of mankind on the environment and the repercussions therefrom, coupled with an appreciation of the biotic and physical parameters of the environment, will prepare the student to evaluate government, industry, and environmentalist positions on environmental issues.

Environmental legislation and the Environmental Protection Agency regulations



have produced an increased demand by both industry and all levels of government for personnel who are trained in the environmental sciences. These programs of study will provide a strong background for advanced study or allow placement directly in a variety of career areas, depending on the individual course of study. Students who have the proper academic record may use EESC 481 and EESC 491 to pursue Honors in Environmental Earth Sciences. Financial support for student research is available.

Requirements for the Major

Students expecting to major in Environmental Earth Sciences should take the following courses as basic requirements or electives because they are prerequisite to courses in the major program: Biology 121, 122, Chemistry 111, 112; Economics 201, 202.

Core Courses: Environmental Earth Sciences 101, 460; Biology 311 or 322; Chemistry 252 or 211, 212; Economics 331; Geography 375; Geology 111 or 102, or 112; Sociology 311 or Geography 275, or Sociology 314.

Required Groupings: 14-16 credits from courses in one of the following groupings to form an approved, cohesive program. (No more than three courses may be taken in any one discipline):

(A) Natural Environmental Sciences:
Biology 231, 250, 311, 312, 321, 322, 323, 342, 363, 364, 371, 372, 422S, Chemistry 211, 212, 252, 317, 318, 319, 320, 333; Geography 330, 340, 350, 351, 370; Geology 102, 111, 112, 221, 301, 402; Environmental Earth Sciences 481, 491, 499.

(B) Social Environmental Sciences:
Anthropology 102; Biology 250; Economics 312, 332, 341, 354, 405; Geography 230, 235, 275, 330, 340, 350, 351, 370, 430, 435; Political Science 332, 341, (PSCI 101, 102 are prerequisites); Public Administration 311, 312, 320, 401, 402; Sociology 311, 313, 314; Environmental Earth Sciences 481, 491, 499.

Recommended: Computer Science 101; Geography 202; Mathematics 121; Physics 101, 102, or 105, 106; Mathematics 200; Courses in Basic Requirements or Required Groupings as above.

Course Offerings

101 - Introduction to Environmental Earth Sciences (1)
Mankind and the environment as viewed from the social and natural sciences. Bass (Fall).

460 - Environmental Earth Sciences Seminar (2)
Multidisciplinary evaluation of environmental problems. Senior level seminar for Environmental Earth Science majors; others by permission of the instructor. Bass (Spring).

481 - Readings in the Environmental Earth Sciences (1-2)
Readings in Environmental Earth Sciences literature selected by the student, who is guided by a staff member. Open to junior and senior majors by permission of the Department. Staff (Each Semester).

491 - Special Problems in the Environmental Earth Sciences (1-3)
Prerequisite: Environmental Earth Sciences 481. Individual investigation supervised by a staff member. Open to junior and senior majors with permission of the Department. Staff (Each Semester).

499 - Internship
Prerequisite: Junior or senior major in good academic standing with appropriate background. Supervised off-campus experience, developed in consultation with the Department. Credits variable. Staff (Each Semester).

Department of Business Administration

Steven L. Czarsty, *Chairperson*
Steven L. Czarsty, *Career Adviser - Business Administration*
Monica Lindeman, *Career Adviser - Public Administration*

Faculty:

Professor:
Steven L. Czarsty

Associate Professors:
Frederick Davidson
Monica Lindeman

Assistant Professors:
Patricia L. Metzger
David J. Skaret
Kenneth R. Wagner
Karen L. Williams

Instructors:
Harry J. Skinker
Fred T. Whitman

Lecturers:
Felix M. Fabian
Joel Levy
John R. Tuttle
George R. Yohanek

The Department of Business Administration is composed of the following disciplines: Accounting, Finance, Law, Management, Marketing, Quantitative Methods, Policy, and Public Administration. These disciplines, taken as a group, comprise the common body of knowledge in Business Administration. The Department uses, when feasible, both the Prime Main Frame and the PC Computers throughout the disciplines.

Business Administration

The degree in Business Administration is designed to provide an understanding of the variety of approaches to and the complexities of the managerial process in an ever-changing society, both within and outside the business firm.

The program aims to develop both specific analytical skills and a broad intellectual outlook in students who wish to combine their liberal arts education with course work of intellectual substance which will provide a background for an immediate career in business or for graduate study.

Requirements for the Major

In Major Subject: Twenty-four (24) credits in Business Administration courses 231, 232, 300, 310, 352, 380, 381, 490, plus 12 credits in upper level Business courses.

Note: Economics 201, 202, are prerequisites to BUAD 231-232 and should be taken in a student's first year. MATH 200 is prerequisite to BUAD 352.

231, 232 - Principles of Accounting (3, 3)
Prerequisite or corequisite: Economics 201, 202. Fundamental accounting principles and practices involved in the recording and interpretation of accounting data Only in sequence. Staff (Fall and Spring).

Business Administration 231 and 232 are prerequisites for all other Business courses.

Course Offerings

300 - Principles of Management (3)
The fundamentals of management and organization for business operations. Emphasis is placed on the theory of management, authority and responsibility, organization principles, the managerial job, direction and leadership, decision making, policy formation, planning and control. Staff (Fall and Spring).

301 - Organizational Theory (3)
Prerequisite: Business Administration 300. Formal and informal organizational structure; variables affecting the administration of complex organizations. Staff (Spring).

302 - Production Systems (3)
Prerequisite: Business Administration 300. Managerial procedures in the production process; planning, control, standards, and reports. Whitman (Spring).

310 - Principles of Marketing (3)
Prerequisite: Economics 201, 202 and Business Administration 231, 232. The place of marketing in the economic system together with the policies and practices of marketing institutions. Subjects considered include: marketing functions, marketing organization, marketing research, merchandising, channels of distribution, transportation and social regulation of marketing. Whitman (Fall and Spring).

311 - Consumer Behavior (3)
Prerequisite: Business Administration 310. Analysis of consumer behavior and theories of consumer choice; techniques and problems in predicting consumer behavior. Staff (Fall and Spring).

312 - Retail Management (3)
Prerequisite: Business Administration 310. The organization, operation, and management of retail establishments; inventory methods, retail buying and selling. Staff (Fall and Spring).

331, 332 - Intermediate Accounting (3, 3)
More advanced principles of accounting. Only in sequence. Staff (Fall and Spring).

333 - Cost/Managerial Accounting (3)
Prerequisite: Business Administration 231, 232 or permission of instructor. Fundamental principles and procedures of the analysis of cost systems, cost concepts and behavior, performance measurement, and analytical uses of accounting data for administrative decisions. Metzger (Fall).

341 - Personnel Administration (3)
Prerequisite: Business Administration 300. An analysis of the problems and practices in personnel management; selection, placement, evaluation, promotion, and termination. Staff (Fall).

352 - Quantitative Methods for Decision-Makers (3)
Prerequisite: Mathematics 200. The application of various quantitative techniques for management; mathematical-statistical, replacement models, Markov-chain models, inventory and production models, simulation, game theory, queuing, linear programming, transportation, network analysis, and the foundations of decision theory. Staff (Fall and Spring).

380 - Business Law (3)
A survey, through the case method approach, of the legal principles and rationale underlying the rights and obligations of business relationships. The Uniform Commercial Code is emphasized. Williams (Fall and Spring).

381 - Corporate Finance (3)
Prerequisites: Business Administration 231, 232 and Economics 201, 202. An over-

view of financial management emphasizing identification and solution of financial problems confronting the business enterprise. Coverage includes the role of financial management, tools of financial analysis, working-capital management, the cost of capital, financial structure and long-term assets. Staff (Fall and Spring).

403 - Organization Behavior (3)
Prerequisite: Business Administration 300. Dynamics of organizational behavior in business, interpreted from a behavioral science perspective. Staff (Fall).

413 - Marketing Research (3)
Prerequisite: Business Administration 310. Research in marketing as a tool for the identification, collection, and analysis of information relevant to decision-making by the marketing executive. Whitman (Fall).

431 - Governmental Accounting (3)
Prerequisites: Business Administration 231, 232. Accounting for governmental organizations (municipalities, state and federal governments, school districts, hospitals and universities). Nature of fund accounting, allocation of funds, disbursements, operational auditing, administrative and legal control. Wagner (Fall and Spring).

432 - Advanced Accounting Problems (3)
Prerequisites: Business Administration 331, 332. Advanced problems in financial accounting theory dealing with partnership, corporations, consolidated statements and fiduciary accounting. Czarsty (Fall).

434 - Federal Taxation (3)
Prerequisites: Business Administration 231, 232 or permission of instructor. An examination of the federal tax structure and the application of tax principles to the solutions of problems. Staff (Spring).

435 - Auditing (3)
Prerequisite: Business Administration 331, 332. A course in audit concepts, standards and procedures, ethical and legal requirements of the audit, prevention and detection of fraud through internal control systems, and audit applications in the business environment. Wagner (Spring).

442 - Labor-Management Relations (3)
A survey of collective bargaining process, the labor contract, unionism, impact of labor-management relations on wages, the legal context of labor-management relations and the responsibilities of unions and management. Staff (Spring).

471 - Business Administration Seminar (3)
Special topics of interest to staff and students will be discussed in seminar. Staff (Upon Demand).

490 - Business Policy (3)
Prerequisite: 24 credit business core. A senior-level course which is the capstone of the student's study of business administration. Cases concerning administrative management present problems involving the integration of departmental policies into administrative decisions. Staff (Fall and Spring).

491 - Individual Study in Business Administration
Directed individual research on an approved problem in business administration. Credits variable. Staff (Upon Demand).

499 - Internship
Supervised off-campus experience, developed in consultation with the Department. Credits variable, 0-3. *Declared Majors Only.* (Upon Demand).

Department of Chemistry, Geology, and Physics

Roy F. Gratz, *Chairperson*
Bernard L. Mahoney, *Career Adviser - Chemistry*
Robert L. McConnell, *Career Adviser - Geology*
Bulent I. Atalay, *Career Adviser - Physics*

Faculty

Professors:
Bulent I. Atalay
Judith A. Crissman
John K. George
Philip L. Hall
Bernard L. Mahoney
Nikola M. Nikolic
Lawrence A. Wishner

Associate Professor:
Roy F. Gratz

Assistant Professors:
Robert L. McConnell
Raymond B. Scott

The Department of Chemistry, Geology, and Physics encompasses major programs in three fundamental scientific disciplines. Chemistry, the study of the structure and properties of matter, has been called the "central science" because it forms a bridge between biology and physics. Geology, the study of the structure and processes of the Earth, gives a foundation for understanding the evolution, environment, and resources of our planet. And, Physics, which deals with the interactions of matter and energy, is basic to the study of all the sciences. These three disciplines afford insight into natural phenomena at both the microscopic and macroscopic levels, and they provide problem solving skills for functioning in the modern world.

The Department has well-equipped laboratories to support and reinforce classroom instruction and to provide opportunities for research. Instrumentation is available for most types of spectroscopy including ultraviolet, visible, infrared, nuclear magnetic resonance, atomic absorption and emission, x-ray fluorescence, and mass spectroscopy. Other major equipment items include several gas chromatographs, a liquid chromatograph, and an x-ray diffractometer. The Department also has a number of microcomputers and has access to the College's minicomputer. For geological field work, there are a proton magnetometer, a seismometer, surveying equipment, and altimeters, and, for classroom study, there is an extensive collection of rocks, minerals, and fossils.

Chemistry

The Chemistry program offers a modern curriculum for the study of chemistry within the general framework of a liberal arts and sciences education. It prepares a student for graduate, medical, or dental school; for employment in the chemical industry; or for secondary school teaching. In addition, a number of courses provide an important foundation in chemical theory and practice for the study of biology, geology, environmental earth science, and the health sciences. In general, chemistry is a good major program around which one can build a career-focused set of courses from other disciplines, e.g., with mathematics and computer science for chemical engineering or industrial chemistry; with economics and business administration for industrial chemistry; with biology for the health sciences; and with geology for energy or environmental research. Majors are encouraged to do independent study and research during their senior year, and if they have a 3.00 overall grade point average with a 3.25 average in chemistry courses, they may

pursue honors in chemistry which consists of completing an independent research project and writing and defending a thesis.

Requirements for the Major

In Major Subject: Thirty-five (35) credits in the following chemistry courses: CHEM 111, 112, 211, 252, 383, 384, 387, 388, 423, 451, and 452.

Additional major requirements: One upper-level chemistry course of three (3) or four (4) credits.

Note: MATH 122 and PHYS 105 and 106 are prerequisites to CHEM 383 and should be completed before the junior year.

Course Offerings

105, 106 - Introductory Chemistry I, II (4, 4)
An overview of the principles of chemistry with emphasis on practical applications. Laboratory. Only in sequence. Does not satisfy any major program requirements nor serve as prerequisite to any other chemistry courses. Staff (105 offered each fall semester; 106 offered each Spring semester).

111, 112 - General Chemistry I, II (4, 4)
Introduction to the fundamental principles of chemistry and the more important elements and their compounds. Laboratory. Only in sequence. Entry level course for additional work in chemistry. Staff (111 offered each Fall semester; 112 offered each spring semester).

211, 212 - Organic Chemistry I, II (4, 4)
Prerequisite: CHEM 112. The comprehensive study of the structure and reactivity of carbon compounds. Laboratory. Only in sequence. Gratz (211 offered each Fall semester; 212 offered each Spring semester).

252 - Analytical Chemistry (4)
Prerequisites: CHEM 112 and MATH 111 or equivalent. Theory and techniques of analytical chemistry including introductory instrumental methods of analysis. Laboratory. Scott (Fall or Spring semester).

317, 318 - Biochemistry I, II (3, 3)
Prerequisite: CHEM 212. The application of chemical principles to the study and understanding of the living state. Only in sequence. L. Wishner (317 offered each Fall semester; 318 offered each Spring semester).

319, 320 - Biochemistry Laboratory I, II (1, 1)
Prerequisites: CHEM 212 and 252; corequisites: CHEM 317 and 318. Selected research techniques involving the chemical composition and properties of cells, tissues, and organisms. L. Wishner (319 offered each Fall semester; 320 offered each Spring semester).

333 - Environmental Chemical Analysis (4)
Prerequisite: CHEM 252 or permission of the instructor. Modern laboratory and field methods used in the evaluation of environmental systems. Laboratory. May not satisfy any major program requirements nor serve as prerequisite to any other chemistry courses. Mahoney (Offered every other year in the Fall or Spring semester; next offered in 1987-88).

343 - Inorganic Chemistry
Prerequisite: CHEM 112. Modern theories of atomic structure and chemical bonding and their applications to molecular and metallic structures and coordination chemistry. Crissman (Each Fall semester).

383, 384 - Physical Chemistry I, II (3, 3)
Prerequisites: CHEM 112, PHYS 105 and 106, and MATH 122. Thermodynamic,

kinetic, quantum mechanical, and spectroscopic properties of chemical systems. Only in sequence. Mahoney (383 offered each Fall semester; 384 offered each Spring semester).

387 - Physical Chemistry Laboratory I (2)
Prerequisite: CHEM 252; corequisite: CHEM 383. Selected experiments involving the investigation of thermodynamic, electrochemical, and kinetic properties of chemical systems. Mahoney (Each Fall semester).

388 - Physical Chemistry Laboratory II (1)
Prerequisite: CHEM 252; corequisite: CHEM 384. Selected experiments involving the investigation of spectroscopic and quantum mechanical properties of chemical systems. Mahoney (Each Spring semester).

392 - Instrumental Methods of Analysis (4)
Prerequisite: CHEM 252; corequisite: CHEM 384. Principles and methods of optimization of instrumental methods used in characterizing chemical systems. Laboratory. Staff (Each Spring semester).

411 - Advanced Organic Chemistry (3)
Prerequisite: CHEM 212. Organic reaction mechanisms and the relation of molecular structure to physical and chemical properties. Staff (Offered every other year in the Fall or Spring semester; next offered in 1986-87).

423 - Experimental Methods in Chemistry (4)
Prerequisites: CHEM 212 and 252. Spectroscopic, chromato-graphic, and chemical functional group techniques used in characterizing chemical systems. Laboratory. Staff (Each Fall or Spring semester).

451, 452 - Seminar I, II (1, 1)
Open to senior majors only except by permission of the Department. Introduction to the chemical literature and information retrieval; oral reports and discussion of selected topics in chemistry. Staff (451 offered each Fall semester; 452 offered each Spring semester).

471 - Advanced Topics in Chemistry (2-3)
Prerequisite: permission of the instructor. Advanced treatment of selected topics in chemistry. Staff (Each Fall or Spring semester).

491 - Individual Study (1-4)
Open to qualified students by permission of the Department. Individual investigation of chemical topic or system under the direction of a member of the Department. Staff (Upon Demand).

499 - Internship (Credits variable)
Prerequisites: CHEM 388 and 392 or 423. Supervised off-campus experience developed in consultation with the Department. The first six (6) credits of internship may not count toward the major program requirements; subject to Departmental approval. Credits beyond six may be substituted for some major requirement. Staff (Upon Demand).

Geology

The geology program offers introductory courses which are designed to introduce students to the basic principles and applications of the science and upper-level courses that provide more in-depth analysis of geological processes for students who are planning professional employment or graduate study in the field. The program also provides background for teaching the earth sciences. Geology is a good major program around which one can build a career-focused set of courses from other disciplines, e.g., with geography for urban and land-use planning or cartography; with biology for environmental studies; and with chemistry and physics for geochemical or geophysical research on energy and mineral resources.

Majors are encouraged to do independent study and research during their senior year, and if they have a 3.00 overall grade point average with a 3.25 average in geology courses, they may pursue honors in geology which consists of completing an independent research project and writing and defending a thesis.

Requirements for the Major

In Major Subject: Twenty (20) credits in the following geology courses: GEOL 111, 112, 301, 302, and 412.

Additional Major Requirements: Sixteen (16) credits in other geology courses at the 200 level or above. With adviser approval, GEOG 340 and 350 may be substituted for up to eight (8) of these credits.

Note: CHEM 112 is prerequisite or corequisite to GEOL 301 and should be taken no later than the sophomore year.

Course Offerings

102 - Oceanography (3)
Study of the oceans, ocean floor, sediments, continental drift, plate techtonics, physical oceanography, and marine resources. Does not satisfy any major program requirements nor serve as prerequisite to any other geology courses. Staff (Each Fall or Spring semester).

111 - Introductory Geology (4)
Introduction to the earth: rocks and minerals, mountain-building, structure of the earth's interior, and surface processes. Laboratory. Entry level course for additional work in geology. Staff (Each semester).

112 - Earth History (4)
Prerequisite: GEOL 111. History of the earth with emphasis on plate techtonics, evolution of continents and ocean basins, and evolution of life as deduced from the fossil record. Laboratory. Staff (Each Spring semester).

201 - Paleontology (4)
Prerequisites: GEOL 111 and BIOL 121. Plant and animal fossils and the ancient environment indicated by their presence. Laboratory. Staff (Offered every other year in the Fall or Spring semester; next offered in 1987-88).

221 - Environmental Geology (3)
Prerequisite: GEOL 111; recommended: GEOL 112. Interaction of geologic processes with society; geology, recovery, and use of fossil fuels and mineral deposits; groundwater: sources, uses, and degradation; energy sources. McConnell (Each Fall or Spring semester).

301 - Mineralogy (4)
Prerequisites: GEOL 111 and CHEM 112. Study of minerals including an introduction to crystallography and methods of identification. Laboratory. Staff (Each Fall semester).

302 - Petrology (4)
Prerequisite: GEOL 301. Origin and evolution of magmas; origin, nature and classification of igneous and metamorphic rocks; introduction to sedimentary rocks; laboratory emphasis on identification of hand specimens. Laboratory. McConnell (Each Spring semester).

311 - Sedimentation and Stratigraphy (4)
Prerequisite: GEOL 111; recommended: GEOL 301. Survey of sedimentary particles, transport processes, depositional environments, and resulting strata. Laboratory. McConnell (Offered every other year in the Fall or Spring semester; next offered in 1987-88).

402 - Geochemistry (3)
Prerequisite: GEOL 301 or permission of the instructor. Study of distribution, migration, and abundance of the elements within the earth. Staff (Offered every other year in the Spring semester; next offered in 1987-88).

412 - Structural Geology (4)
Prerequisite or corequisite: GEOL 302. Analysis and interpretation of structural features of the earth's crust such as folds and faults. Laboratory. Staff (Offered every other year in the Fall or Spring semester; next offered in 1987-88).

421 - Advanced Topics in Geology (2-4)
Prerequisite: permission of the instructor. Specialized topics not offered on a regular basis, e.g., Vertebrate Paleontology, Hydrology, and Optical Mineralogy. Laboratory included with certain topics. Staff (Each Fall or Spring semester).

491 - Individual Study (1-4)
Prerequisite: permission of the instructor. Investigation of a topic which may include laboratory and literature research. Course of study determined by instructor and student. Staff (Upon Demand).

499 - Internship (Credits variable)
Supervised off-campus experience developed in consultation with the Department. A maximum of three (3) credits may count toward the major program requirements. Staff (Upon Demand).

Physics

The courses in the physics curriculum offer a well-rounded view of contemporary physics. A strong core of courses in theoretical physics is augmented by laboratory experience and practical computational techniques. The diversity of the curriculum allows students to pursue careers in industry, government, and teaching, or to undertake graduate study. Physics is a good major program around which one can build a career-focused set of courses from other disciplines, e.g., with mathematics or computer science for work in government or industry or for graduate study; with biology for work in the rapidly expanding field of biophysics; or with geology for geophysical research on energy and mineral resources. Qualified seniors may undertake a research project, which culminates in a thesis. The successful defense of the thesis earns Honors in Physics. A student seeking Honors will register for Individual Study for four (4) credits each semester.

Requirements for the Major

In Major Subject: Thirty-two (32) credits in the following physics courses: PHYS 105, 106, 211, 212, 321, 322, 331, 332, 382, 411, and 412.

Additional Major Requirements: Six (6) credits in MATH 223 and 312.

Note: MATH 121 and 122 are corequisite to PHYS 105 and 106, respectively.

Course Offerings

101, 102 - General Physics (4, 4)
Introductory course. Primarily for non-science and non-physical science students. Stresses conceptual rather than mathematical aspects of physics. Laboratory. Only in sequence. (101 Fall semester, 102 Spring semester).

103, 104 - Elementary Astronomy (3, 3)
Historical introduction, description of the solar system, stars, galaxies, and the Universe as a whole, and their properties, together with the rudiments of physics underlying these subjects. A limited laboratory is included. (103 Fall semester, 104 Spring semester).

105, 106 - University Physics (4, 4)
Corequisites: MATH 121 for PHYS 105, and MATH 122 for PHYS 106. Primarily for science students. Covers essentially the same topics as PHYS 101, 102, except more mathematical rigor is employed. Laboratory. Only in sequence. (105 Fall semester, 106 Spring semester).

211 - Modern Physics (3)
Prerequisite: PHYS 102 and MATH 122, or PHYS 106. Foundations of quantum mechanics, atoms with one electron, mutielectron atoms, molecules, solid state physics, the special theory of relativity. Atalay (Fall semester).

212 - Modern Physics Laboratory (3)
Prerequisite: PHYS 211. Experiments relevant to modern physics; e.g. measurement of the speed of light, the charge and mass of the electron, Planck's constant, and various nuclear decays. Staff (Spring semester).

312 - Nuclear Physics (3)
Prerequisite: PHYS 101 or 105, and MATH 122. Nuclear structure, static and dynamic properties of the nucleus. Radioactive decay, the Bateman Equations, mass parabolas, transition rates, and the machines of nuclear physics (detectors, accelerators, etc.). Atalay (Spring semester).

321, 322 - Classical Mechanics (3, 3)
Prerequisites: PHYS 106. Kinematics and dynamics of mass particles, systems, conservation laws, Lagrange and Hamiltonian methods, Hamilton's equations of motion. Only in sequence. Nikolic (321 Fall semester, 322 Spring semester).

331, 332 - Electricity and Magnetism (3, 3)
Prerequisites: PHYS 106. Maxwell's equations, electromagnetic waves and their properties are covered; time permitting, the special theory of relativity is brought in. Only in sequence. Nikolic (331 Fall semester, 332 Spring semester).

382 - Electronics (3)
Prerequisite: PHYS 106. Introduction to the theory and operation of electronic instruments and basic circuits. Limited lectures with emphasis on laboratory work. Staff (Upon Demand).

391 - Optics (3)
Prerequisite: PHYS 106. Introduction to geometrical optics and optical instruments, followed by physical optics. Staff (Upon Demand).

393, 394 - Methods of Mathematical Physics (3, 3)
Prerequisite: PHYS 106. Corequisite: MATH 223. Vectors, matrices, coordinates, functions of complex variables, differential equations, Fourier and Laplace transformations, vector spaces, variational methods, tensors, group theory. Only in sequence. Nikolic (Upon Demand).

401 - Thermodynamics and Statistical Mechanics (3)
Prerequisites: PHYS 106. Temperature, thermodynamic states and variables, the laws of thermodynamics, entropy, thermodynamic potentials, change of phase, and the statistical properties of thermodynamic systems. Staff (Upon Demand).

411, 412 - Quantum Mechanics (3, 3)
Prerequisites: PHYS 211 and MATH 223. Schrodinger's equation, harmonic oscillator, matrix formulation of quantum mechanics, angular momentum and scattering theories, perturbation theory, rudimentary relativistic quantum mechanics. The computer is often used for matrix manipulation. Only in sequence. Atalay (411 Fall, 412 Spring).

422 - Nuclear and Elementary Particle Physics (3)
Prerequisites: PHYS 211 and MATH 223. Nuclear Structure, static and dynamic properties, fundamental particles. Limited lab in nuclear spectroscopy. Atalay (Spring).

462 - Advanced Nuclear Physics (3)
Prerequisite: PHYS 312. Perturbation theory applied to nuclear models. The computer is used to diagnalize matrices. Taught as a summer course only. Atalay (Summer Only).

482 - Physics Seminar (3)
Open to third and fourth year physics majors for credit. Staff (Upon Demand).

491, 492 - Individual Study (3)
Open to junior and senior physics majors. Staff (Upon Demand). Four credits when taken for Honors in Physics.

499 - Internship (Credits Variable)
Supervised off-campus experience, developed in consultation with the Department. Staff (Upon Demand).

Department of Classics, Philosophy, and Religion

George M. Van Sant, *Chairperson*
Diane F. Hatch, *Career Adviser - Classics*
George M. Van Sant, *Career Adviser - Philosophy*
David W. Cain, *Career Adviser - Religion*

Faculty

Professors:
David W. Cain
George M. Van Sant
Diane F. Hatch

Associate Professor:
Janet F. Wishner

Assistant Professors:
Robert F. Boughner
James E. Goehring
Craig Vasey

The Department is comprised of three distinct disciplines: Classics, Philosophy, and Religion. Majors are offered in each discipline. Inter-disciplinary study is strongly encouraged, but not required for students of any one of the three disciplines.

The Department offers four major programs: Classics with concentration in Classical Civilization; Classics with concentration in Latin; Philosophy; and Religion.

Classics

Classics involves the study of the language and literature of Greece and Rome, as well as the civilization which evolved during the period of Greek and Roman domination of the Mediterranean World. Since many of the ideas and principles which emerged at that time are basic to the heritage of Western civilization, courses in classics are applicable to the study of almost all the liberal arts.

Students wishing to major in classics are offered the choice of a concentration in Latin or the interdisciplinary concentration major in Classical Civilization. In either area, students develop the program—which may include individual study—in consultation with a faculty advisor.

While many classics majors include teacher certification in their schedule, other students combine their concentration in Latin or Classical Civilization with studies in related fields, such as history, philosophy, religion, English, or modern foreign languages. With such a background, graduates have a wide range of opportunites after college, including museum work, archaeology, graduate study, teaching, or translating.

See also listings under Greek and Latin.

Requirements for Classical Civilization Concentration Major

Thirty-nine (39) credits in approved courses relating to classical civilization, including at least 12 credits in Latin or Greek, either of which may be used to establish competence in a foreign language.

Approved courses: Art History 114, 310, 311; CPR 299; English 211, 212, 234, 242; History 331, 332; Italian 395; Linguistics 101; Philosophy 111, 312, 321; Religion 205, 206, 220, 306, 341 (with approval).

Course Offerings

131 - Greek and Latin Roots of the English Language (3)
Introduction to the basic Latin and Greek components of English. Staff (Upon Demand).

201 - Classical Motifs in Literature (3)
A study of heroism, the heroic journey, and related themes in Homer, Virgil, and post-classical writers. Hatch (Fall 1987).

202 - Ancient Tragedy (3)
A study of the tragic plays of Aeschylus, Sophocles, and Euripides. Boughner (Each Fall).

203 - Ancient Comedy (3)
Study of selected works by Greek and Roman comedians and satirists. Boughner (Upon Demand).

205 - Mythology (3)
The principal Greek and Roman myths, with emphasis on their influence in literature and art. Hatch (Each Spring).

206 - Greek and Roman Religion (3)
The public, personal, and mystery religions of the Greeks and Romans, and the development of classical religious ideas. Boughner (Spring 1988).

207 - Greek and Roman Civilization (3)
Major facets of Greek and Roman culture and their influence on later Western civilization. Staff (Upon Demand).

331 - Ancient Greece (3)
Geography, history, and civilization of Greece from the earliest times through the death of Alexander the Great. (Same as History 331). Staff (Each Fall).

332 - Ancient Rome (3)
Formation, development and demise of the Republic; Augustus and the Empire; and the impact of Christianity. (Same as History 332). Staff (Each Spring).

380 - Archaeology of the Greek and Roman World (3)
Prerequisite: Art History 114 or History 331 or 332. Study of the archaeological excavation of Greek and Roman sites, with emphasis on problems of archaeological methods and interpretation. Staff (Upon Demand).

451, 452 - Special Studies in Classical Civilization (3)
Reading and study in a specialized area of ancient culture. By permission of the Department. Staff (Fall 1986 and Spring 1987).

491 - Individual Study in Classical Civilization (1-4)
Individual study under the direction of a member of the staff. By permission of the Department. Staff (Upon Demand).

Greek

See Classics for general statement of goals and program.

131-132 - Elementary Greek (3, 3)
Introduction to the language of ancient Greece. Grammar and composition are stressed, leading to translation of literature. Staff (Each Year).

133, 134 - Intermediate Greek (3, 3)
Prerequisites: Greek 131-132 or equivalent. Review of grammar. Selections from various authors. Staff (Each Year).

351 - Advanced Greek Grammar (1)
Boughner (Fall 1986).

491, 492 - Individual Study in Greek (3, 3)
Individual study under the direction of a member of the staff. By permission of the Department. Staff (Upon Demand).

Latin

Latin majors may take advantage of several special opportunities. The College is a member of the Intercollegiate Center for Classical Studies in Rome and students who major in Latin may study there. (Some financial aid is available.) Latin majors may also work towards Honors with the approval of the Department. In recent years, Latin majors have been unusually successful in obtaining teaching positions at the high-school level and in gaining admission to graduate and professional schools. See *Classics* for general statement of goals and program.

Requirements for the Major

Twenty-five (25) credits in Latin courses beyond the intermediate level including Latin 351; 12 credits from the following courses: Art History 114, 310, 311; Classics 201, 202, 203, 205, 206, 207, 331, 332, 380, 451, 452, 491; English 211, 212, 234, 242; Greek 131-132, 133-134; History 331, 332; Italian 395; Linguistics 101; Philosophy 111, 312, 321; Religion 205, 206, 220, 306, 341 (with approval).

Course Offerings

111-112 - Elementary Latin (3, 3)
Essentials of Latin grammar and composition; introduction to the translation of Latin literature. Staff (Each Year).

113, 114 - Intermediate Latin (3, 3)
Prerequisite: Latin 111-112 or two units of secondary school instruction. Continued study of Latin grammar and composition; readings from Latin prose and/or poetry. Staff (Each Year).

211, 212 - Survey of Latin Literature (3, 3)
Prerequisite: Latin 113, 114 or 4 units of secondary school Latin. Historical survey of the development of Latin literature from earliest inscriptions to the end of pagan Roman writing. Staff (1987-88).

301 - Cicero (3)
Boughner (Fall 1986).

302 - Virgil (3)
Boughner (Spring).

303 - Ovid (3)
Hatch (Fall 1987).

304 - Livy (3)
Boughner (Spring 1988).

351 - Advanced Latin Grammar (1)
Required of all majors. Staff (Upon Demand).

401 - Roman Drama (3)
Staff (Upon Demand).

402 - Lyric and Elegiac Poetry (3)
Staff (Upon Demand).

403 - Roman Historical Writing (3)
Staff (Upon Demand).

404 - Roman Philosophical Thought (3)
Hatch (Fall 1986).

405 - Roman Satire (3)
Hatch (Spring 1987).

451, 452 - Special Studies in Latin Literature (3, 3)
Reading and study of individual Latin authors, genres of literature or of an area of Roman civilization. By permission of the Classics faculty. Staff (Upon Demand).

491, 492 - Individual Study in Latin (1-3)
Individual study under the direction of a member of the staff. By permission of the Classics faculty. Staff (Upon Demand).

Philosophy

Philosophy is the critical examination of our basic beliefs. It requires the analysis of abstractions, and it develops the ability to do research, organize results, and present these results in written or oral form.

Because the discipline emphasizes creative research into philosophical problems as well as the competent expression of one's own views, philosophy can be studied profitably by a student majoring in any College program.

The objectives of the discipline are to serve the academic program of the whole College by offering courses of interest to the scientist and mathematician, to the social scientist, and to the student interested in the humanities and literature.

The major in philosophy is of special interest to students who wish a deeper understanding of the history of the discipline and the inter-relations between philosophical problems. The major is especially beneficial to students planning to enter the traditional professions of law, theology, or medicine. Many students give depth to their academic preparation by combining philosophy and another subject in a double major.

Requirements for the Major

In Major Subject: 24 credits in Philosophy, 18 of which must be at the 300 or 400 level; 9 credits from Philosophy 321, 322, 371, 372, 373; 6 credits from the following: American Studies 402, Anthropology 322, Classics 206, Latin 404, CPRD 299, History 401, 402, 411, 412; Philosophy/Biology 250; Religion 306, 314, 317, 331 (by permission of the Department) and 341 (by permission of the Department).

The Honors Option: Students with distinguished academic records are encouraged to pursue the Honors distinction. Such students work on a project, under the supervision of a member of the Department. Upon successful defense of a written thesis, a degree of Philosophy with Honors is awarded.

Course Offerings

101 - Philosophical Questioning (3)
Critical examination of philosophical writings on traditional philosophical problems. Staff (1987-1988).

111 - Introduction to Philosophy: Morals and Society (3)
Alternative views of the nature of morality. Staff (Every semester).

151 - Introduction to Philosophy: Logic and Language (3)
Valid forms of reasoning. Van Sant, Vasey. (Every semester).

152 - Introductory Logic and Computers
Traditional topics of introductory logic, using concepts and methods of computer science. Staff (1987-1988).

211 - Ethical Studies (3)
The status and justification of moral judgments, and the reasons behind disagreements in moral issues. (Upon Demand).

212 - Aesthetics (3)
Examination of a variety of attempts to validate norms of taste and of criticism. Wishner (Fall, 1988).

244 - History of Scientific Thought (3)
Key developments in the history of scientific thinking. Van Sant (Spring semester).

250 - Bioethics (3)
Prerequisite: Biology 121, 122 or by permission of the instructor. Selected topics considered from the standpoint of their biological consequences or ethical implications. (Same as Biology 250). Staff (Fall semester).

304 - American Philosophy (3)
Survey of American philosophical thought. Van Sant (Fall 1987).

306 - Advanced Logic (3)
Prerequisite: Philosophy 151 or completion of 6 credits in mathematics. Theory of formal systems; applied criteria of consistency, completeness and quantification; and other topics in symbolic logic. Vasey (Spring semester 1987).

320 - Philosophical Problems of Law (3)
The relation between moral philosophy and criminal and civil law. Wishner (Spring semester).

321 - Greek Philosophy (3)
Selected works from Plato and Aristotle. Staff (Fall 1987).

322 - Medieval Philosophy (3)
Survey of scholastic philosophy. Staff (Spring 1988).

343 - Existentialism
Recent philosophical developments in the continental European tradition. Vasey (Fall 1986).

354 - Philosophy of Education (3)
Historical and contemporary philosophical examination of the goals and methods of education. (Upon Demand).

371 - Seventeenth and Eighteenth Century Philosophy (3)
Survey of major thinkers from Descartes to Hume. Vasey (Fall 1986).

372 - Kant
Selected major works of Immanuel Kant. Staff (Spring 1989).

373 - Contemporary Philosophy
Critical consideration of major thinkers and movements in the twentieth century. Vasey (Spring 1988).

481 - Readings in Philosophy (3)
Discussion of philosophical literature in a field selected by the philosophy faculty after consultation with students. Staff (Upon Demand).

491, 492 - Individual Study (3-6)
Tutorial under the direction of a member of the staff. By permission of the philosophy faculty.

499 - Internship
Supervised off-campus experience, developed in consultation with the philosophy faculty. Credits variable.

Religion

This is an academic program designed to acquaint students with ways of studying religions and with religious literature. The goal is a broad intellectual understanding of the human creature's religious quest. Students gain critical insight into

what learning can and cannot yield with regard to the larger questions of meaning and truth.

Religion offerings focus on the history and theology of Western religious traditions and biblical studies. Religion students receive personal attention, and pursuit of individual interests is encouraged. Student-faculty gatherings are organized around topics of special interest, and numerous guest lecturers enrich the program. Internships in religion are available to qualified students.

A religion major is a humanities student of broad cultural awareness trained to think, write, and express ideas cogently, and to enter into dialogue discerningly with diverse perspectives. Such abilities are requisite to any career, and religion majors find a wide variety of career opportunities open to them. The B.A. degree in religion also equips students for graduate and seminary study in religion, as well as for graduate study in other fields. Study in religion is an adventure in self-awareness and is ultimately practical in life itself.

Honors are awarded in religion on the basis of excellence in major course work and in writing a senior thesis in the context of Religion 401—Guided Research (see below).

Various religion offerings complement work in American studies, anthropology, classics, dance, drama, English, history, international affairs, philosophy, and Russian studies, among other disciplines.

Requirements for the Major

In Major Subject: 30 credits in religion courses of which at least 12 must be at the 300 level or above. Religion 401—Guided Research—is required of all majors, may be taken during the fall or spring of the student's senior year, and yields 3 of the needed 12 upper-level credits.

Course Offerings

105 - Introduction to Religion (3)
Issues of faith, understanding, and the nature of religions are considered in the context of an introductory study of certain major religious traditions (Hinduism, Buddhism, Taoism, Judaism, Christianity, and Islam, among others). Cain (Fall semester).

111 - Introduction to History of Christianity (3)
Selected topics in the development of Christianity and its institutions from the birth of the church to the present. Goehring. (Fall semester).

117 - Introduction to Christian Theology (3)
The "how" as well as the "what" of theology is explored in relation to basic doctrines and concepts. Cain (Spring semester).

201 - Judaism (3)
Historical and religious development of Judaism from biblical times to the present. Staff (Upon Demand).

204 - Archaeology and the Bible (3)
Examination of the physical remains of the cultures of the ancient Near East and their relevance to the understanding of the biblical narrative. Goehring (Fall semester, 1987, 1989).

205 - Old Testament (3)
A panoramic view of religious, literary, historical, and social dimensions of Israel in the context of the ancient Near East is sought through study of biblical texts. Goehring (Fall semester, 1986, 1988).

206 - New Testament (3)
Historical-critical methods of study are introduced and applied in investigating New Testament sources, forms, and theological motifs. Goehring (Spring semester).

207 - Biblical Studies (3)
Among topics taught at different times: Gospel Traditions, Prophets and Prophecy, Luke-Acts, Johannine Literature, Romans, I and II Corinthians, The Book of Revelation. Staff (Upon Demand). (Johannine Literature, Spring semester, 1988, Goehring; The Book of Revelation, Fall semester, 1989, Cain; Gospel Traditions, Spring semester, 1990, Goehring).

209 - Jesus (3)
Study of various understandings of Jesus and his message from New Testament times until the present. Emphasis will be placed on a critical examination of the figure of Jesus in the records of the early church. Goehring (Spring semester, 1987, 1989).

217 - Primitive Religions (3)
Religions of non-literate peoples. Emphasis is on interpretation of myths, rituals, and shamanism. Staff (Upon Demand).

220 - Studies in Suffering and Evil (3)
A theological and literary examination of theodicy: "If God is good, whence evil?" Emphasis on humor and death. Cain (Spring semester).

231 - Special Studies in Religion (3)
Among topics taught at different times: Women, Sexuality, and Western Religious tradition, Mysticism East and West, Christian Ethics, Current Theological Issues, The Roman Catholic Tradition, Introduction to Islam, Myths of Creation. Staff (Upon Demand). (Christian Ethics, Fall semester, 1986, 1989, Cain; Myths of Creation, Spring semester, 1989, Goehring).

270 - Death and Resurrection (3)
Study of different interpretations of gospel accounts of Jesus' death and resurrection appearances in the wider context of ancient Near Eastern thought provides a pattern for interpreting Christian faith. Emphasis on contemporary understandings of the "death and resurrection" theme. Cain (Fall semester, 1987).

271 - Studies in Faith and Literature (3)
Study of relationships between Christian faith and literary art in the context of contemporary novels, plays, and films. Cain (Fall semester, 1986, 1988).

276 - Religion in America (3)
Principal figures, groups, trends, and issues in religion in America from the colonial period to the present. Goehring (Spring semester, 1987, 1990).

281 - The Religions of India (3)
Study of the historical development and basic traditions of South Asian religions, especially Buddhism, Confucianism, Taoism, and Shinto. Staff (Upon Demand).

306 - Early Christian Thought (3)
Study of the social world and theology of early Christianity from its beginnings as a persecuted sect through the debate on the nature of God and Christ in the fourth and fifth centuries. Goehring (Fall Semester, 1988).

313 - 20th Century European Theology (3)
Persons and problems of European theology from Barth and Bultmann to Moltmann and Jungel, from liberal to liberation theology. Cain (Upon Demand).

314 - 20th Century American Theology (3)
Study of major theological figures and concerns from Niebuhr and Tillich to theologies of "The death of God," "secularity," "process," "play," "story," "hope," and "liberation." Cain (Upon Demand).

317 - Religions in Dialogue (3)
If one religion is, in some sense, "true," are other religions rendered "false"? Is it

possible to confess the truth on one religion and yet remain appreciatively open to the insights of other religions? This course proposes to work through these and related issues of increasing concern in our "pluralistic" age. Cain (Spring semester, 1988).

331 - Special Studies in Religion (3)
Among topics taught at different times: 19th Century Theology, The Reformation: Protestant and Catholic, Medieval Christianity, The Monastic Impulse. Staff (Upon Demand). (The Reformation: Protestant and Catholic, Fall semester, 1986, 1989, Goehring; The Monastic Impulse, Spring, 1988, Goehring; 19th Century Theology, Spring semester, 1990, Cain).

341 - Major Religious Thinkers (3)
Among thinkers studied in depth at different times: Paul, Augustine, Luther, Kierkegaard, Elie Wiesel. Staff (Upon Demand). (Kierkegaard, Spring semester, 1987, 1989, Cain; Paul, Fall semester, 1987, Goehring; Ellie Wiesel, Fall semester, 1988, Cain).

401 - Guided Research (3)
Preparation of a senior thesis under the direction of the religion faculty. Required of all senior majors. Staff (Each semester).

491, 492 - Individual Study (3 each)
Individual work under the guidance of the religion faculty. By permission of the religion faculty. Staff (Each semester).

499 - Internship (1-6)
Supervised off-campus learning experience, developed in consultation with the religion faculty. Staff (Upon Demand).

Classics, Philosophy, and Religion

Course Offerings

200 - Introduction to Women's Studies (3)
Exploration of questions about sex and gender roles and differentiation, misogyny, and conceptions of male/female experience. Staff (Upon Demand).

299 - Mysterium Humanum Studies (3)
Different topics of fundamental human concern are treated at different times in this interdisciplinary course involving Classics, Philosophy, and Religion. Staff (Upon Demand).

Computer Science
See Department of Mathematics and Computer Science.

Dance
See Department of Dramatic Arts & Dance.

Department of Dramatic Arts & Dance

Michael Joyce, *Chairperson*
Jean Hunt, *Career Adviser - Dance*
David Hunt, *Career Adviser - Dramatic Arts*
Michael Joyce, *Career Adviser - Performing Arts*

Faculty

Professor:
Sonja Dragomanovic Haydar

Associate Professor:
Michael Joyce

Assistant Professors:
David E. Hunt, Jr.
Jean Graham Hunt
Cheryl D. Swiss

The Department offers majors in three disciplines: Dramatic Arts, Dance, and Performing Arts. These provide programs on which students can build further professional or graduate work, or which may be useful throughout the liberal arts endeavor. Many of our students use our courses in conjunction with Business, Communication, Education, Public Relations, English, and Philosophy majors.

Techniques, theories, history, and literature are included in all major programs in the Department. Performing Arts is designed especially for those wishing to divide their time between Dance and Dramatic Arts.

Essential to the program is the variety of courses available to students. Equally essential are the many opportunities students have to perform in either dance or theatre and to work on productions, learning different phases of theatrical art.

Important to the program is the emphasis placed upon student leadership and responsibility. Students design, direct, choreograph, and fulfill other positions of leadership, such as stage-managing, in the Department. There are two student organizations, Tri-Muse and a chapter of Alpha Pse Omega (a Dance and Drama honorary) which promote participation and leadership in the Department.

The Department's major drama productions are presented in the 295 seat Klein Memorial Theatre in duPont Hall. Recent productions have included *The Importance of Being Earnest, Dracula, The Bacchae, Little Mary Sunshine, Happy Days,* and *All's Well That Ends Well.* The Mary Washington College Dance Company, a vital part of campus cultural life, presents performances of modern dance, jazz, and ballet in either the Klein Theatre or the 1700 seat Dodd Auditorium.

Lectures and performances by visiting scholars and artists enrich the program. In recent years the campus has hosted such artists as Agnes de Mille, Paul Taylor, Douglas Hamby, the Mathews-Masters Dance Company, Frederick Franklin and Norma Dalby. For the past several years Rosemary Ingham, a nationally renowned costume designer has taught courses for the Department and designed costumes for several productions.

Dance

Requirements for the Major

In Major Subject: 37 credits in Dance courses including two years (eight credits) of Ballet and two years (eight credits) of Modern Dance, 311, 333, 334, 433, 434; and 6 credits chosen from 350, 351, or 352 and Drama 241.

Course Offerings

121, 122 - Beginning Ballet (1, 1)
For students satisfying the physical education requirement. May be taken only S/U. Staff (Each Year).

123, 124 - Beginning Modern Dance (1, 1)
For students satisfying the physical education requirement. May be taken only S/U. Staff (Each Year).

221, 222 - Advanced Beginning Ballet (2, 2)
Ballet as a discipline, emphasizing exactness and precision of line, creative expression, and historical reference. Performance courses continue with 321, 322 and 421, 422. Staff (Each Year).

223, 224 - Advanced Beginning Modern Dance (2, 2)
Study of the various techniques emphasizing alignment, strength, flexibility, and the aesthetic elements of dance. Performance courses continue with 323, 324, and 423, 424. Staff (Each Year).

241, 242 - Advanced Beginning Jazz (2, 2)
Study of jazz dance techniques and exploration of movement as related to jazz music. Performance courses continue with 441 and 442. Staff (Upon Demand).

260S, 261S - dance Workshop (1-3 each)
Summer program covering Ballet, Character, Modern Dance, Jazz and performance. Credits variable. Staff (Upon Demand).

270, 271 - Special Studies in Dance (1-3 each)
Concentration on a single area of dance. Topics vary from year to year. Staff (Upon Demand).

311 - Analysis of Dance Techniques (3)
Comparison of selected dance techniques according to anatomical and kinesthetic principles. Staff (Upon Demand).

321, 322 - Intermediate Ballet (2, 2)
Staff (Upon Demand).

323, 324 - Intermediate Modern Dance (2, 2)
Staff (Upon Demand).

333, 334 - Beginning Choreography (3, 3)
Basic study of the elements of dance composition. Emphasis on solo choreography. Staff (Upon Demand).

350 - Dance History Survey (3)
Dance from the earliest times—Primitive, Greek, Roman, Egyptian, European, Oriental, and Spanish, to the 15th century. Staff (Upon Demand).

351 - History of Ballet (3)
In-depth study of ballet in France, Italy, Russia, and England from the 15th century to the 20th century. Staff (Fall, 1987).

352 - American Dance Heritage (3)
Readings and research in American dance, including the Indian, Black, Modern Dance, and Jazz. Staff (Spring, 1988).

353 - Ethnic Dance (3)
Prerequisites: Dance 122, 124. The study of the history and culture of Western and Eastern countries through dance. Performance of selected dances. Staff (Upon Demand).

400 - Mary Washington Dance Company (1-2)
Performance in the Dance Company. Admission by audition. May be repeated for credit.

421, 422 - Advanced Ballet (2, 2)
Staff (Upon Demand).

423, 424 - Advanced Modern Dance (2, 2)
Staff (Upon Demand).

425 - Classical Ballet Variations (3)
Prerequisites: Dance 321, 322, 421, 422 or permission of instructor. Theory and practice of solo variations in traditional classical ballets. Staff (Spring, 1987).

433, 434 - Advanced Choreography (3, 3)
Prerequisites: Dance 333, 334 and Drama 241 or permission of instructor. Supervised creation and production of dances for a theatrical setting. Emphasis on group choreography. Staff (Upon Demand).

450 - Seminar in Dance (3)
Readings and research in contemporary dance in education, dance therapy, aes-

thetics and philosophy. Staff (Upon Demand).

451, 452 - Special Studies in Dance (1-3 each)
Concentration on a single area of dance. Topics vary from year to year. Staff (Upon Demand).

491, 492 - Individual Study (1-3 each)
Research, choreography, or composition of an approved creative project. By permission of the Department.

499 - Internship
Supervised, off-campus experience, developed in consultation with the Department. Credits variable.

Dramatic Arts

Requirements for the Major

In Major Subject: 38 credits in Dramatic Arts courses, including 131, 132, 211, 212, 218, 222, 321, 361, 362, 431, and 432. Majors must also work in some capacity on all productions of the department.

Course Offerings

111 - Introduction to Theatre (3)
An introductory course for the general student designed to acquaint the student with the various elements of theatrical production. Staff (Fall 1986, 1987).

131, 132 - Stagecraft (4, 4)
Theories and techniques of designing, building, and painting stage settings; organizations and operation of production crews. Laboratory. Hunt (Fall/Spring; 1986, 1988).

211, 212 - World Drama (3, 3)
The reading and discussion of selected plays and of theatrical developments as an introduction to the theatre. Swiss (Fall/Spring; 1986, 1988).

218 - Voice and Body Movement (3)
Voice and body training to improve vocal quality, articulation and posture and carriage. Designed for non-majors and majors. Joyce (Fall 1986, 1987).

321, 322 - Acting (3, 3)
Scene study and performance, creating characters and ensemble training. Joyce (Fall/Spring; 1986, 1988).

240 - Stage Makeup (3)
Study and practice in the techniques and styles of stage makeup for theatre and dance. Hunt (Upon Demand).

241 - Dance Production (3)
Theories and techniques of dance production involving management, budget, sound and music, production design, rehearsal and performance. Course work supplemented with practical production work. Hunt (Upon Demand).

250S, 251S - Fredericksburg Theater Company (3, 3)
Apprenticeship, including acting and technical work, in the Fredericksburg Theater Company during the summer.

270, 271 - Special Studies in Dramatic Arts (3, 3)
Concentration on a single area of dramatic arts for general students. Topics vary from year to year. Staff (Upon Demand).

331, 332 - Playwriting (3, 3)
Writing for the stage. Exercises and practice in the structure of action, character development, dialogue, critical analysis. Staff (Upon Demand).

341 - Stage Costuming (3)
History and basic principles of costume design, use of historic period, silhouettes, stylization, color, and construction to create and enhance the theatrical illusion. Laboratory. Staff (Spring 1987, 1988).

361, 362 - History of the Theatre (3, 3)
Theatres, production methods, dramatic conventions, key figures from the Greek period to the present in the Western world. Swiss (Fall/Spring; 1986, 1988).

372 - Musical Theatre (3)
History and methods of musical theatre. Staff (Fall 1987).

381 - Film Analysis (3)
Viewing and analysis of selected films. Staff (Upon Demand).

391, 392, 393, 394 - Theatre Practicum (1-2 each)
Prerequisites: for technical work, Dramatic Arts 131, 132; for acting, Dramatic Arts 221, 222. Prerequisites may be taken concurrently or equivalent experience may be substituted. By permission of the Department. Theatre Practicum awards credit for performance or production work on major productions of the Department. Students may count only 8 credits in a 122-hour program. Staff (Fall/Spring; 1986, 1988).

421, 422 - Acting Styles and Scene Study (3, 3)
Prerequisites: Dramatic Arts 221, 222. Problems in acting. Creating and sustaining a character. Period styles. Joyce (Fall/Spring; 1986, 1988).

431, 432 - Directing (3, 3)
Technique and practice of directing for the stage. Joyce (Fall/Spring; 1986, 1988).

433 - Stage Lighting (3)
Prerequisites: Dramatic Arts 131, 132. Theories and techniques of lighting stage productions; lighting instruments and equipment. Hunt (Spring 1987, 1988).

434 - Scene Design (3)
Prerequisites: Dramatic Arts 131, 132. History, theory, and design of stage scenery, use of architecture, art, ornament with the elements of design. Hunt (Spring 1987, 1988).

451, 452 - Special Studies in Dramatic Arts (3, 3)
Concentration on a single area of dramatic arts. Topics vary from year to year. Staff (Upon Demand).

491, 492 - Individual Study (1-3 each)
Individual study under direction of a member of the Department. By permission of the Department. Staff (Upon Demand).

499 - Internship
Supervised off-campus experience, developed in consultation with the Department. Credits variable. Staff (Upon Demand).

Performing Arts

Requirements for the Major

In Major Subject: 38 credits from courses in Dance or Dramatic Arts which include: 4-8 credits from Ballet 121, 122, 221, 222, 321, or 322. 4-8 credits in modern dance from 123, 124, 223, 224, 323, or 324. DRAM 218, 321, 372, 421, 422. An additional 7 credits from Dance or Drama. A three credit individual study to be completed in the junior or senior year. Music courses are advised.

Department of Economics

Robert S. Rycroft, *Chairperson*
Steven A. Greenlaw, *Career Adviser*

Faculty

Associate Professors:
Robert S. Rycroft
Shah M. Mehrabi

Assistant Professors:
Steven A. Greenlaw
Richard P. Hydell
Stephen P. Stageberg

The Department offers a contemporary curriculum in economics designed for the student planning on graduate, law, or other professional school, employment in business or government, or for the student desiring to study economics within the general framework of the liberal arts.

Economics

The discipline of economics is as broad as it is exciting. Far from being simply the study of business, economics is a method of analyzing individual behavior in environments characterized by scarcity. Inflation, unemployment, the energy crisis, environmental problems, poverty, discrimination, economic growth and development, marriage and childbearing, and the proper role of government in society are only a sample of the issues with which economics grapple.

Students are encouraged to develop an "economic way of thinking." This skill is invaluable to the understanding of national and international economic issues as well as decision-making at the individual level. To support this, students are given training in the quantitative skills commonly used to aid decision-making in business, government, education and research. Practical experience is available through internships. The College's proximity to Washington and a supportive local business community create many stimulating internship opportunities. Students with superior academic records in economics and who write an acceptable research paper are eligible for honors.

Associated with the Department are two organizations that promote the study of economics. The Economics Club is open to all students. It encourages discussion of current issues, sponsors speakers and social events, and encourages interaction among sudents and faculty. Omicron Delta Epsilon is a national economics honor society for students with superior academic records. Each year at convocation the Department presents two awards to graduating seniors. The Henry W. Hewetson Award honors academic achievement and service to the Department. It consists of a prize and cash stipend. The James Harvey Dodd award is given to a senior planning further study in economics. The award is an approximate $1,000.00 scholarship.

Requirements for the Major

In Major Subject: Economics 201, 202, and 33 credits in upper-level economics courses including 303, 304, 361, 462, and either 373, 374 or 375.

Course Offerings

101 - Elements of Economics (3)
One semester introduction to economic theory and contemporary economic issues. Students receiving credit for Principles cannot receive credit for Elements. Staff (Upon Demand).

201 - Principles of Macroeconomics (3)
The economic problem, economic systems, and an introduction to the theory of national income determination. Staff (Each semester).

Economics 201 is a prerequisite for Economics 202.

202 - Principles of Microeconomics (3)
Economic analysis of households, firms and the public sector. Contemporary problems involving markets. Staff (Each semester).

Economics 201 and 202 are prerequisites for all 300 and 400 level Economics courses.

303 - Microeconomics (3)
A systematic study of the role of the price system in organizing economic activity and an evaluation of its effectiveness. Greenlaw (Fall semester).

304 - Macroeconomics (3)
Analysis of the determination of national income, employment and the price level. Stabilization and growth policies. Greenlaw (Spring semester).

311 - Industrial Organization (3)
Economic analysis of the structure, conduct, and performance of industry. Topics include the nature of competition, innovation, pricing policies, advertising, political influence, antitrust policies and regulation. Mehrabi (Spring semester).

312 - Government and Business (3)
The rationale for and impact of government participation in the marketplace. Topics include antitrust laws and policies and regulation. Mehrabi (Fall semester).

321 - Money and Banking (3)
The nature and functions of money, banking organization and practices, and the role of the monetary sector in the determination of income, employment and prices. Greenlaw (Fall Semester).

322 - Investment Analysis (3)
Introduction to portfolio theory and the evaluation of investment alternatives. Topics include the stock market and the valuation of securities. Hydell (Fall semester).

331 - Environmental and Resource Economics (3)
The application of economic methods to the analysis of environmental issues. Topics will include natural resource economics and public policy. Staff (Fall semester).

332 - Economics of Health (3)
A survey of market behavior, institutions, and public policy in the provision of health services. Staff (Upon Demand).

341 - Government Finance (3)
An analysis of the appropriate role of government in the allocation of resources. Hydell (Spring Semester).

351 - Labor Market Analysis (3)
Analysis of the operation of labor markets. Topics include: human capital theory, economics of education, discrimination, poverty, labor market policy, and the economic effects of unions. Rycroft (Fall, 1987).

353 - Economics of Labor Unions (3)
Economic analysis of the structure, behavior and impact of unions. History of the labor movement. Rycroft (Fall 1986).

354 - Urban Economics (3)
An economic analysis of contemporary urban topics including location theory and

the economic structure of cities, growth and development of central cities and ghettoes, housing, transportation, poverty, crime, and fiscal issues. Staff (Upon Demand).

361 - Introductory Econometrics (3)
An introduction to the statistical methods used in economics. Stageberg (Fall semester).

373 - Marxian Economics (3)
An introduction to the economic theories of Marx and his followers. Topics include value theory, historical materialism, structure of classes, dynamics of accumulation and alienation. Hydell (Spring semester).

374 - History of Economic Thought (3)
A survey of economic analysis from Grecian antiquity to the 20th century, concentrating on the 18th and 19th centuries. Stageberg (Spring 1988).

375 - American Economic History (3)
The study of factors contributing to the economic development of the United States, including the historical growth of economic institutions such as agriculture, banking, labor unions, and manufacturing. Hydell (Fall semester).

382 - International Economics (3)
An introduction to international trade, the balance of payments, exchange rate determination, and related issues of foreign economic policy. Stageberg (Fall semester).

383 - Comparative Economic Systems (3)
Analysis and comparison of alternative economic systems, highlighting Capitalism, Socialism, and Communism. Emphasis on underlying theory, institutions and selected problems associated with these economic systems. Mehrabi (Fall semester).

384 - Economic Development (3)
An introduction to the economic characteristics and current problems of developing countries, theories of economic development and alternative policies and reforms required for third world countries. Mehrabi (Spring semester).

405 - Contemporary Economic Issues (3)
Prerequisite: Economics 303 and 304. Discussion of contemporary issues in economic theory and policy. Greenlaw (Spring semester).

461 - Mathematical Economics (3)
Prerequisites: Economics 303, 304; Mathematics 121. Use of mathematical methods in economic analysis. Topics will include equilibrium analysis, comparative statics, and optimization. Stageberg (Spring semester).

462 - Economic Forecasting (3)
Prerequisite: Economics 361. Specification, estimation, evaluation and simulation of forecasting models. Survey of econometric, time-series, and leading indicator techniques. Rycroft (Spring semester).

482 - International Finance (3)
Prerequisite: Economics 382. Survey of the major topics in contemporary international finance: exhange rate determination, balance of payments adjustment, eurocurrency markets and international banking, currency speculation, international borrowing and lending and the international debt crisis. Greenlaw (Spring semester).

491 - Individual Study in Economics (3)
Directed individual research on an approved topic in economics. Staff (Each semester).

498 - Economics Seminar (3)
Special topics of interest to faculty and students. Staff (Upon Demand).

499 - Internship (Credits variable; up to six hours may count in major)
Supervised off-campus experience, developed in consultation with the Department. Staff (Each semester).

Department of Education

Paul C. Slayton, *Chairperson*
Brenda E. Vogel, *Career Adviser*

Faculty

Professers:
A. R. Merchent
Paul C. Slayton
H. Conrad Warlick

Associate Professors:
Brenda E. Vogel
Paul M. Zisman

Assistant Professor:
Marilyn M. Maxon

Instructors:
John P. Johnson
Adrienne C. May

The role of the Department of Education is to help students develop the competencies necessary for successful teaching in elementary or secondary schools. Consequently, the Department functions as a service department offering, as electives, courses designed to prepare the liberal arts student to meet requirement for certification as a teacher.

The Department maintains a curriculum center and textbook repository for the use of students enrolled in teacher preparatory programs, and cooperates closely with area elementary and secondary schools to provide preteaching experiences for prospective teachers.

Programs of study offered by the Department lead to teacher certification with endorsement to teach in the following grades and/or disciplines: elementary grades (kindergarten to grade 4); comprehensive certification (kindergarten thru grade 12) in art and music; and secondary certification (grades 8-12) in each of the following disciplines: biology, chemistry, drama, earth science, English, French, general science, geography, German, history, history and the social sciences, journalism, Latin, mathematics, physics, sociology, speech and Spanish.

In addition to full preparation for teaching, a Mary Washington College student may complete a foundation program which, with additional study at the graduate level, can provide entry into such professional specializations as special education, educational psychology, school administration, instructional supervision, and guidance and counseling.

Mary Washington students may elect to take classes offered by the Department of Education. However, admission into an approved program leading to certification is by formal application which must be submitted to the Department of Education in September of the junior year, or at the end of the first semester in residence by upper division transfer students. In addition, formally enrolled students must apply to the Department for permission to enroll in Education 440, *Supervised Teaching*. Criteria for admission to student teaching include: (a) SAT scores of 850 or better or acceptable NTE scores (b) good academic standing with a 2.5 or better G.P.A. in the major and endorsement program and (c) recommendation from major department and Education Department faculty.

The teacher education programs at the College are approved by the Virginia State Department of Education and the National Association of State Directors of Teacher Education and Certification. The Mary Washington College student completing an approved program is eligible for certification in any of the more than 30 states signatory to the Teacher Certification Reciprocation Agreement.

The Department of Education sponsors the Nu Xi Chapter of Kappa Delta Pi, an international honor society in education, and the Student Education Association and the National Education Association. The *Lester D. Crow* scholarship is awarded each semester to an outstanding student teaching applicant and the Mary Jo Kleiner-Phillips scholarship is awarded annually to an outstanding junior or senior student seeking teacher certification in the elementary grades. The Edward E. Alvey, Jr., scholarship is awarded annually to a rising senior seeking teacher certification who best demonstrates a commitment to teaching as exemplified by the career of Dean Alvey. Virginia State scholarship/loans are available for mathematics, science, and foreign language teachers.

Elementary Certification Program:
Nursery school, Kindergarten to Grade Four

202 - Teaching the Very Young Child (3)
A practical orientation to the behavior and needs of preschool children in educational settings. Includes children, infancy through age four. Maxon (Upon Demand).

205 - Children's Literature (NK-4) (3)
A survey of children's literature with emphasis on fostering creativity and facilitating the language arts. Staff (Each semester).

312 - The Elementary School: Program and Curriculum (NK-4)
Objectives, practices and materials of the elementary school. Emphasizes teaching subject disciplines, classroom management, and evaluating pupil progress. Field experience required. Maxon (Each semester).

332 - Child Development in the Educational Setting (NK-4)
Physical, social, emotional, and intellectual development of the elementary age child. The effect of social forces on the behavior of the child. Field experience required. Zisman (Each semester).

339 - Mathematics for Teachers (NK-4) (3)
Course content applicable to the mathematics curriculum of the elementary school. Credit granted only to those students enrolled in the NK-4 certification program. Sheckels (Each semester).

349 - Physical Education for the Elementary Teacher (NK-4) (3)
Movement skills for children; includes movement exploration, creative rhythms, folk dance, games, and self-teaching for physical fitness. Gordon (Each semester).

359 - Music for the Elementary Teacher (NK-4) (3)
Objectives and processes of teaching music in the elementary grades. Burton (Fall semester).

369 - Art for the Elementary Teacher (NK-4) (3)
Objectives and processes of teaching art in the elementary school. Johnson (Each semester).

379 - Developmental Reading (NK-4) (3)
An overview of the reading process, including theoretical basis and instructional practices. Field experience required. Vogel (Each semester).

380 - Diagnostic Reading (NK-4) (4)
Prerequisite: Education 379 or permission of instructor. A survey of reading problems, informal and formal diagnostic instruments, and instructional procedures. A

formal practicum is required. Vogel (Each semester).

402 - Instructional Strategies (NK-4) (3)
Principles, practices, and materials of kindergarten-primary school programs. Emphasizes teaching from a developmental point-of-view of the child. Field experience required. Maxon (Each semester).

414 - Teaching Mathematics and Science in the Elementary School (NK-4) (3)
Objectives, practices, and materials of elementary mathematics and science programs; emphasis on conceptual learning. Staff (Upon Demand).

Secondary Endorsement Programs:
Teaching the Disciplines, Grades Eight through Twelve
(Art, Music: Kindergarten through Grade Twelve).

310 - Reading in the Content Areas (3)
Practices, principles, and materials for teaching reading concomitantly with the subject discipline. Field experience required. Vogel (Each semester).

317 - Teaching Music in the School: Instrumental (3)
The objectives and processes of teaching music; emphasis on music reading, conceptual learning, curriculum, and evaluation. (For music majors). Field experience required. Burton (Spring semesters).

319 - Teaching Foreign Language (3)
The objectives, practices, and materials of teaching modern and classical languages in the secondary school. Field experience required. Zisman (Fall semester).

320 - Teaching Art (3)
The objectives, practices, and materials of teaching art in elementary and secondary schools. (For art majors). Field experience required. Johnson (Fall semesters, even numbered years).

321 - Teaching Mathematics (3)
The objectives, practices, and materials of teaching mathematics in the secondary schools. Field experience required. Zisman (Fall semesters only).

322 - Teaching Social Sciences (3)
The objectives, practices, and materials of teaching a social science discipline in the secondary school. Field experience required. Slayton (Fall semesters).

323 - Teaching Sciences (3)
The objectives, practices, and materials of teaching a science discipline in the secondary school. Field experience required. Zisman (Fall semesters).

324 - Teaching English/Drama (3)
The objectives, practices and materials of teaching English and/or drama in the secondary school. Field experience required. Slayton (Spring semesters).

All Certification Programs

420 - Foundations of Education (3)
Theories of education as related to schooling, legal authority, regulations, and ethics. Staff (Each semester).

440 - Supervised Teaching (3)
Prerequisites: Enrollment only by approval of the Department of Education. Orientation to teaching under the direction of cooperating teachers in public elementary and secondary schools. Staff (Each semester).

Service Courses

441, 442, 443 - Supervision Seminar for Cooperating Teachers (2 each)
Prerequisite: Selection to serve as a cooperating teacher. A sequence of seminars in

educational supervision available only to classroom teachers serving as cooperating teachers to Mary Washington College student teachers. Staff (Each semester).

471 - Special Topics in Education (1-6)
Specific subject content to be determined with participating school divisions. Staff (Upon Demand).

Department of English, Linguistics, and Speech

Carlton R. Lutterbie, Jr., *Chairperson*
Sidney H. Mitchell, *Career Advisor*

Faculty

Professors:
Nathaniel H. Brown
Daniel A. Dervin
Delmont F. Fleming
Donald E. Glover
Susan J. Hanna
Richard E. Hansen
William Kemp
Carlton R. Lutterbie
Nancy H. Mitchell
Sidney H. Mitchell
Raman K. Singh

Associate Professor:
Marjorie O. Collins

Assistant Professors:
Carol S. Manning
Richard J. McCann

Instructor:
J. David Hair

The Department of English, Linguistics, and Speech combines three disciplines whose common concern is the English language. English courses examine written English, both the great works of English and American literature and student writings of many kinds—analytical, creative, journalistic. Linguistics courses study the nature of language—how languages are put together and how they function socially and culturally. Speech courses expose students to the theory and practice of spoken English. All three disciplines are taught in small classes, and combine an historical perspective on their subject areas with close instruction in critical/analytical skills and creative expression.

English

The Department's programs permit majoring in English with a concentration in either literature or writing. Requirements ensure familiarity with both the language itself and with literary history, while choices within each major program allow individual focusing. Introductory courses, numbered below 300, provide experience in exact reading and effective writing. The main body of courses, numbered 300 to 399, offers chances to do more sophisticated writing and to explore works of literature defined by period, genre, or theme. Seminars, individual study, and internships, numbered from 400 to 499, offer intense, highly individualized study to complement the lectures and discussions through which our other courses operate. All classes are small, and a number of other activities, such as the Poetry/Fiction Reading Series, bring professors and students together informally.

Qualified students are eligible to apply for honors in English in their senior years and to join Lambda Iota Tau, a national literature honor society with which the Department is affiliated.

While the Department has no specific ideology, we are devoted to rigorous thought, mastery of detail, intellectual honesty, and witty and elegant expression. Many students combine studying literature or writing with majors in other disciplines. About 30 percent of our majors also certify for elementary or secondary teaching. Others go on to graduate or professional school. Still others take jobs in everything from the unusual and exotic, through the myriad shadings of journalism and public relations, to government and business; our internship program offers valuable preparation for such careers. The specific skill nourished by majoring in English which employers value most is exact writing; but like all humane disciplines, English teaches complexity of thought and subtlety of feeling. What unites all English majors is joy in the language and love for its literature.

Requirements for the Major

Literature Concentration

In Major Subject: English 233; 27 credits in upper-level English courses, including 3 courses concentrating on literature written before 1800 and 2 seminars.

In Other Subjects: Linguistics 101 and 305.

Writing Concentration

In Major Subject: One course from English 200, 201, 231, 232, 233; 27 additional credits in upper-level writing and literature courses to include the following:

(1) at least two 300-level courses;

(2) at least four upper-level literature courses, of which 2 must deal with literature written before 1800;

(3) at least 2 courses (6 credits) on the 400-level (seminars, individual study, or internships).

In Other Subjects: Linguistics 101 and 305.

Course Offerings

101 - Writing Workshop (3)
Group and tutorial instruction in the fundamental techniques of expository and argumentative writing: organization, development, coherence, research methods, mechanics. Staff (Each semester).

200 - Newsgathering (3)
An introduction to the techniques of newsgathering, including practice in interviewing, reporting, and writing various kinds of news stories. Staff (Fall semesters).

201 - Advanced Composition (3)
Development of flexible and effective expository prose through analysis of models and practice with styles and techniques. Staff (Spring semesters).

211 - Survey of English Literature I (3)
Literary movements and types from Beowulf through the 18th century. Staff (Fall semesters).

212 - Survey of English Literature II (3)
Literary movements and types from the Romantic movement to the present. Staff (Spring semesters).

221 - Survey of American Literature I (3)
American backgrounds and literary movements and types from the colonial writers through Whitman. Staff (Fall semesters).

222 - Survey of American Literature II (3)
American backgrounds and literary movements and types from Dickinson to the present. Staff (Spring semesters).

231 - Short Fiction (3)
Study of selected short stories and short novels. Staff (Each semester).

232 - The Novel (3)
Study of the form, content, and development of selected novels. Staff (Each semester).

233 - Poetry (3)
Close analysis of poetic form and content. Staff (Each semester).

234 - Shakespeare (3)
Shakespeare's achievement in selected plays and poems. Staff (Each semester).

235 Tragedy (3)
Tragedy as form and idea in selected works of world literature. Staff (Upon Demand).

236 - Comedy (3)
Comic conventions in selected works of world literature. Staff (Each semester).

241 - Fantasy in Literature (3)
Themes, techniques, and structures in the literature of fantasy. Glover (Upon Demand).

242 - Myth in Literature (3)
Study of myth—cultural, natural, Christian, and classical—in selected literary works. Fleming (Upon Demand).

243 - Women in Literature (3)
Study of literature by and about women. Staff (Each semester).

244 - Narrative Form in Fiction and Film (3)
Study of parallel narratives in novels and fiction films, to see how the medium of telling affects the story told. Staff (Upon Demand).

251 - Issues in Literature (3)
Significant literary figures, movements, and topics. Consult schedule of courses for specific topic. Staff (Upon Demand).

300 - Principles of Newspaper Writing (3)
Prerequisite: English 200 or permission of the instructor. Practice in writing, reporting, editing, and laying out various kinds of news stories. Staff (Spring 1987).

301 - Principles of Magazine Writing (3)
Prerequisite: English 200 or permission of the instructor. Practice in writing, reporting, editing, and laying out various kinds of magazine articles, with emphasis on feature writing. Staff (Spring 1988).

302 - Creative Writing I (3)
Prerequisite: English 231 or 232 or 233 or permission of the instructor. Introduction to the writing of fiction and poetry. Primary emphasis on developing student abilities to write creatively, with periodic attention to examples from established writers. Staff (Fall semesters).

303 - Creative Writing II (3)
Prerequisite: English 302 or permission of the instructor. Continuation of English 302, with emphasis on more sustained creative writing projects. Staff (Spring semesters).

306 - Topics in Writing (3)
Practice in writing in certain styles and forms. Consult schedule of courses for specific topic and prerequisites. Staff (Upon Demand).

309 - Chaucer and His Age (3)
Primarily Chaucer's *Canterbury Tales*, with some attention given to other lyric, heroic, or romance narratives of medieval England. Collins (Fall 1987).

311 - Arthurian Romance (3)
The growth and development of the Arthurian romance from the 12th to the 20th century with special but not exclusive focus on its development in English medieval literature, painting, and manuscript illumination. Collins (Fall 1986, 1988).

315 - English Drama Through the Restoration (3)
Origins and development of English drama through the Restoration. Includes miracle and morality plays, and Elizabethan, Jacobean and Restoration drama. Lutterbie (Spring 1988).

316 - Renaissance and Baroque Literature (3)
English nondramatic literature of the 16th and 17th centuries. Emphasizes Sidney, Spenser, Donne, Johnson, and Milton. Kemp (Spring 1987).

319 - Shakespeare: The Early Plays (3)
Shakespeare's later development, focusing on the tragedies, problem plays, and final romances. S. Mitchell (Spring semesters).

325 - The Age of Neoclassicism (3)
English literature during the Restoration and the early 18th century, with emphasis on the revival of classical aesthetics and forms. Hansen (Fall 1986, 1988).

326 - The Age of Sense and Sensibility (3)
English literature during the second half of the 18th century, with emphasis on the transition from Neoclassicism to Romanticism. Hansen (Spring 1987).

333 - The British Novel to 1945 (3)
Growth of the English novel from its origins to the Second World War. Hansen (Fall 1987).

334 - The American Novel to 1945 (3)
Growth of the American novel from its origins to the Second World War. Staff (Spring 1988).

335 - English Romanticism: Wordsworth to Keats (3)
English literature of the early 19th century, concentrating on five great Romantic poets: Wordsworth, Coleridge, Byron, Shelley, and Keats. Brown (Fall 1987).

336 - Victorian Literature (3)
English literature from 1830 to 1900, emphasizing the poetry of Tennyson and Browning and the novels of Dickens. Hanna (Spring semesters).

355 - American Romanticism (3)
Literary romanticism in 19th century American prose and poetry. Includes Hawthorne, Melville, Thoreau, Whitman, and Dickinson. Fleming (Fall semesters).

356 - American Realism (3)
Literary realism in American prose and poetry of the 19th and early 20th centuries. Includes James, Dreiser, Twain and others. Glover (Spring semesters).

365 - Modern Literature (Emphasis Drama) (3)
Origins and development of major concerns and themes in the early modern period. Includes chiefly British and American writers. Staff (Fall semesters).

366 - Modern Literature (Emphasis Poetry) (3)
Explorations of modern themes and techniques in the works of major modern writers, chiefly British and American. Staff (Spring semesters).

369 - Contemporary Poetry and Drama (3)
Major European writers of the 20th century and their reflection of literary, political, social, philosophical and psychological developments. Lutterbie (Upon Demand).

370 - Contemporary Poetry and Drama (3)
Contemporary poetry and drama, primarily British and American. Staff (Upon Demand).

373 - Contemporary British and American Fiction (3)
Fiction in Britain and America since the Second World War. Staff (Upon Demand).

375, 376 - Special Studies (3, 3)
Studies in significant literary figures, movements, and topics. Consult schedule of courses for specific topic. Staff (Upon Demand).

411 - Studies in Drama (3)
Major problems, themes, movements, or figures in drama. Consult schedule of courses for specific topic. Staff (Upon Demand).

413 - Studies in Poetry (3)
Major problems, themes, movements, or figures in poetry. Consult schedule of courses for specific topic. Staff (Upon Demand).

415 - Studies in the Novel (3)
Major problems, themes, movements, or figures in the novel. Consult schedule of courses for specific topics. Staff (Upon Demand).

445 - Studies in English Literature to 1600 (3)
Significant figures, movements, themes, or problems in English literature to 1600. Consult schedule of courses for specific topic. Staff (Upon Demand).

447 - Studies in English Literature, 1600-1800 (3)
Significant figures, movements, themes, or problems in English literature, 1600-1800. Consult schedule of courses for specific topic. Staff (Upon Demand).

449 - Studies in English Literature, 1800-Present (3)
Significant figures, movements, themes, or problems in English literature, 1800 to the present. Consult schedule of courses for specific topic. Staff (Upon Demand).

455 - Studies in American Literature to 1900 (3)
Significant figures, movements, themes, or problems in American literature through the 19th century. Consult schedule of courses for specific topic. Staff (Upon Demand).

457 - Studies in American Literature, 1900-Present (3)
Significant figures, movements, themes, or problems in American literature of the 20th century. Consult schedule of courses for specific topic. Staff (Upon Demand).

465 - Major Seminar (3)
Literature as a discipline. Topics include literary history, textual criticism, contemporary prose styles, and use of linguistics and computer techniques. Staff (Upon Demand).

470 - Seminar in Creative Writing (3)
Prerequisite: English 302 and 303, or permission of instructor. Advanced workshop in creative writing. Staff (Upon Demand).

491, 492 - Individual Study (3, 3)
Individual study under the direction of a member of the staff. By permission of the Department. Staff (Upon Demand).

499 - Internship (1-6)
Supervised off-campus experience, developed in consultation with the Department. Up to six credits may be counted toward the English major with a concentration in writing. Staff (Upon Demand).

Linguistics

Courses in linguistics offer the student, regardless of special interest, an understanding of the fundamental structure of language and, in conjunction with other disciplines, an opportunity to explore the acquisition of language in cultures and societies. Though we offer no major program in linguistics, linguistic courses are a valuable complement to any major that deals with language, literature, or human communication and interaction.

Course Offerings

101 - Introduction to General Linguistics (3)
The nature, structure, and function of language; its acquisition; its relationship to thought; and its use in a social context. Staff (Each semester).

201 - Issues in Sociolinguistics and Anthropological Linguistics (3)
Prerequisite: Linguistics 101. The significance of language for human social life; language as an instrument for the acquisition of personality, of social role and social status; verbal behavior and nonverbal communication. Collins (Spring 1988).

301 - Major Figures in Linguistics (3)
Prerequisite: Linguistics 101. The history of linguistic thought with special emphasis on significant figures and key developments in twentieth century linguistics. Collins (Upon Demand).

305 - The English Language (3)
Prerequisite: Linguistics 101. Structural, transformational, and case grammars and their application to English language and literature. Staff (Each semester).

491, 492 - Individual Study in Linguistics (3)
Prerequisite: Linguistics 101. In-depth individual research in an area of linguistics under the guidance of a member of the staff. By permission of the Department. Staff (Upon Demand).

Speech

Speech courses seek to enhance skills in oral communication by exposing students to the theory and practice of public speaking, interpersonal and small group discussion, argumentation, and reading before an audience. Courses on the 200-level are performance courses, kept small to allow individualized instruction in the strategies of effective oral communication. Courses on the 300-level offer an historical and theoretical approach to the study of oral communication in society, from the ideas of the ancient Greeks to the problems of contemporary life. Students interested in more intense training in persuasive speaking can join the College debate team and receive academic credit for participation in regional and national debate tournaments.

Course Offerings

205 - Public Speaking (3)
Study of the basic principles of public address in Western society. Emphasis is on developing a theoretical and practical understanding of oral communication through practice in preparing, delivering, and criticizing speeches in class. Hair (Fall semester).

206 - Interpersonal and Small Group Communication (3)
Theory and practice of effective interpersonal and small group communication. The first half of the course focuses on analyzing, evaluating, and participating in interpersonal relations; the second half on group dynamics, problem-solving, and decision-making. Hair (Spring semester).

207 - Literature in Performance (3)
A performance course designed to enhance the performer's appreciation and understanding of the great literature of the world—poetry, prose, and drama—by translating the printed page into the spoken word. Experience in presenting material to both adults and children. Hair (Fall 1987).

209 - Argumentation and Discussion (3)
Theory and practice in argumentation and discussion, designed to help students develop skills in persuasive speaking by helping them gather and evaluate evidence and use it in constructing oral arguments. Hair (Fall 1986, 1988).

310 - Intellectual Foundations of Communications (3)
Introduction to human communication studies, emphasizing the history and theory of ancient rhetoric to discover the significant questions raised by rhetoricians about society and how they can be applied to contemporary life. Hair (Spring 1987).

311 - Communication in a Free Society (3)
Study of recent developments in rhetoric and the persuasive strategies of groups and individuals that touch our daily lives. Includes study of persuasive methods used in mass movements, advertising, politics, and religion. Hair (Spring 1988).

370 - Topics in Speech Communication (3)
Studies in major figures, movements, and problems in speech communication theory and practice. Consult schedule of courses for specific topic. Hair (Upon Demand).

470 - Debate Practicum (1)
Credit for satisfactory work on the College debate team. Enrollment by permission of instructor and the Department. No more than 8 credits of Debate Practicum may count toward the 122 hours required for graduation. Hair (Each semester).

491, 492 - Individual Study (3, 3)
Individual study under the direction of a member of the staff. By permission of the Department. Staff (Upon Demand).

499 - Internship (1-6)
Supervised off-campus experience, developed in consultation with the Department. Credits variable. Staff (Each semester).

Environmental Earth Sciences

See Department of Biological Sciences.

French

See Department of Modern Foreign Languages.

Department of Geography

Samuel T. Emory, *Chairman*
James B. Gouger, *Career Advisor*

Faculty
Professors:
Marshall E. Bowen
Samuel T. Emory

Associate Professors:
James B. Gouger
Richard P. Palmieri

Geography, the study of place, is concerned with identifying and explaining the distribution and interrelationships of physical and cultural phenomena. Patterns of spatial arrangement are analyzed according to the attributes of location, extent, density, and succession. Because of its breadth—examining mankind, his works, and his environment—the discipline of Geography bridges the physical and social sciences. Thus, the study of Geography embraces both the spirit and the purpose of a liberal education.

The Geography program at Mary Washington College stresses a traditional approach to the discipline, introducing students to analytic techniques applicable to a wide range of spatially-related questions. The Geography major prepares students for abundant career opportunities in government and private industry as well as for graduate studies in Geography, planning, and a variety of other disciplines. Recent graduates have begun careers as cartographers, urban and regional planners, map curators, intelligence officers, geographic editors, industrial location and transportation analysts, and resource and land managers. Facilities for geographic studies at Mary Washington are excellent and include outstanding map and air photo collections and a well-equipped cartography laboratory.

Requirements for the Major

In Major Subject: 36 credits in geography, including at least two courses in each of four course groupings: physical, regional, systematic, and professional. One geology course may be substituted for Geography in the physical group. Geography 499 (Internship) does not count toward the minimum requirements for a Geography major.

Course Offerings

101 - World Regional Geography (3)
Analysis of geographic patterns in the distribution of physical and cultural phenomena in the major regions of the world. Palmieri (Fall semester).

201 - Introduction to Cultural Geography (3)
Concepts, themes, and methods of cultural geography presented within an evolutionary framework which stresses German, French, English, Russian, and American schools of geographic thought. Palmieri (Spring semester).

202 - Introduction to Physical Geography (3)
An introduction to the varied processes which act on and produce the spatial patterns of physical features on and near the surface of the earth. Palmieri (Fall semester).

221 - Geography of Eastern Anglo-America (3)
Regional geography of the eastern United States and Canada, stressing differences in the land, landscape, life, and livelihood. Bowen (Fall semester).

222 - Geography of Western Anglo-America (3)
Regional geography of the western United States and Canada, stressing differences in land, landscape, life, and livelihood. Bowen (Spring semester).

230 - Introduction to Economic Geography (3)
Distribution, description, and analysis of traditional economic systems, their spatial and environmental frameworks, and their roles in the modern world. Palmieri (Fall semester).

235 - Introduction to Urban Geography (3)
Origin and diffusion of pre-industrial cities, their environmental settings, urban ecology, functions, and morphology in both Old and New Worlds. Palmieri (Fall semester).

275 - Human Environment: Perception and Utilization (3)
Human ecology, environmental quality, pollution, resource utilization, conservation, and man's role in changing the face of the earth. Gouger (Each semester).

301 - Geography of Middle America and the Caribbean (3)
Regional geography of the lands and peoples of Middle America and the Caribbean, with particular emphasis on the historical development of distinct geographic regions. Gouger (Fall semester).

302 - Geography of South America (3)
Regional geography of the lands and peoples of South America, with particular emphasis on historical geography and the development of distinct geographic regions. Gouger (Spring semester).

303 - Geography of Europe (3)
Climate, surface features, natural resources, population, agriculture, industry, and trade of the European continent. Emory (Fall semester).

304 - Geography of the Middle East and North Africa (3)
A study of the arid-land countries of the Middle East and North Africa, focusing on landscape, economy, life, and livelihood. Emory (Spring semester).

305 - Geography of Sub-Saharan Africa (3)
A study of Africa south of the Sahara, focusing on landscape, economy, life and livelihood. Emory (Fall semester).

306 - Geography of South and Southeast Asia (3)
Environment, landscape, and livelihood of the Indian subcontinent and mainland and insular Southeast Asia, with special reference to tropical and subtropical monsoon regions. Palmieri (Spring semester, 1986, 1988).

307 - Geography of East and Central Asia (3)
Environment, landscape, and livelihood of China, Mongolia, the Koren Peninsula, Japan, and the Treaty Ports. Palmieri (Spring semester, 1987, 1989).

308 - Geography of the Soviet Union (3)
Landforms, climate, boundaries, trade, resources, people, and cultural groupings of the Soviet Union. Emory (Spring semester).

320 - Geographical Influences on History (3)
Influences of man's physical environment on history, with emphasis on American history. Emory. (Each semester).

321 - Political Geography (3)
Study of geographic factors in world power and international affairs, Emory. (Each semester).

330 - Introduction to Planning (3)
Study of the basic concepts, laws, and methods used in city and regional planning. Staff (Fall, 1986, 1988).

340 - Interpretation of Maps and Aerial Photographs (4)
Prerequisites: Geography 221 and 222 or permission of the instructor. Geographic interpretation of large-scale maps and aerial photographs, with emphasis on their use as research tools in Geography. Gouger (Fall semester).

350 - Cartography I (4)
Prerequisite: Geography 340 (may be taken concurrently) or permission of the instructor. Introduction to basic cartographic methods and analysis of cartographic problems, with exercises in techniques of graphic presentation. Gouger (Fall semester).

351 - Cartography II (4)
Prerequisite: Geography 350. Introduction to negative-scribing and the use of stable-base media; exercises in the construction of cartograms and physiographic mapping. Gouger (Spring semester).

360 - Geographic Study Abroad (variable 1-6)
A course conducted in a selected area abroad which combines lecture, observation, and travel. Emory (Summer only).

370 - Geomorphology (3)
Prerequisite: Geography 202 or Geology 101 or permission of the instructor; Geography 340 is strongly recommended. Origin and development of landforms and their relation to underlying structure, process and time. Bowen (Spring semester).

375 - Weather and Climate (3)
Prerequisite: Geography 202 or permission of the instructor. Analysis of weather processes, distribution of climate regions, impact of climate upon man and nature. Staff (Fall semester 1987, 1989).

410 - Selected Topics in Geography (variable 1-3)
Lecture or seminar class dealing with a preselected topic of current interest. (May be repeated for credit with change of topic). Staff (Upon Demand).

422 - Historical Geography of North America (3)
Geography of selected regions of North America during designated periods of history. Bowen (Fall).

430 - Advanced Economic Geography (3)
Theoretical approaches to location of economic activity, spatial models of economic systems, regional economic organization. Palmieri (Spring semester).

435 - Advanced Urban Geography (3)
Post-industrial cities; an intensive view of their urban structure, internal and external spatial relationships, and city-systems. Palmieri (Spring semester).

460 - Field Methods in Geography (3)
Methods of obtaining information, mapping, and preparation of reports and illustrative materials based on field research experience. Staff (Upon Demand).

461 - Geographical Fieldwork (3)
Intensive study of a problem in physical, economic, or cultural geography, conducted in an area of geographic interest. Staff (Upon Demand).

480 - History of Geographic Thought
Prerequisite: Twenty-four credits in Geography or permission of the instructor. Seminar on the development of geographic knowledge, theory, philosophy, and methods, as illustrated by the writings of representative geographers. Gouger (Spring semester).

485 - Readings in Geography (variable 1-3)
Prerequisite: Permission of the instructor. Directed readings on a selected topic in geography under the guidance of a member of the Geography faculty. Staff.

491 - Individual Study in Geography (variable 1-6)
Prerequisite: Permission of the instructor. Intensive individual study of some geographic problem. Staff.

492 - Individual Study in Cartography (variable 1-6)
Prerequisite: Geography 351 and permission of the instructor. Intensive individual study of some cartographic problem. Gouger. (Upon Demand).

499 - Internship (variable 1-6)
Prerequisite: Permission of the instructor. Supervised off-campus experience. Credits variable. Not counted towards major. Emory (Upon Demand).

Geology

See Department of Chemistry, Geology and Physics.

German

See Department of Modern Foreign Languages.

Greek

See Department of Classics, Philosophy and Religion.

Department of Health and Physical Education

Edward H. Hegmann, *Chairperson*
Edward H. Hegmann, *Career Adviser*

Faculty

Professor:
Edward H. Hegmann

Associate Professor:
Miriam J. Greenberg

Assistant Professors:
Thomas J. Davies
Constance A. Gallahan
Roy M. Gordon

Instructors:
Elizabeth R. Hollibaugh
Paul L. Richards
D. Stan Soper

Participation in physical activities, including physical education classes, recreational programs, and intercollegiate athletics, is considered an essential part of the educational experience at Mary Washington.

The center for all indoor health, physical education and recreation is Goolrick Hall. A modern 74,000 square foot building, it has courts for basketball, badminton, volleyball, handball-racquetball, two dance studios, a 6-lane, 25-yard swimming pool with 1- and 3-meter diving boards, a weight training room, six large classrooms and an auxiliary gym for individual exercise and recreation.

The outdoor facilities include fields for soccer, lacrosse, field hockey, flag football, softball, and rugby, running trails, an 8-lane, 400-meter Rubaturf track and fourteen tennis courts (including a new ten-court lighted complex). A new baseball field is also planned for the spring of 1988.

Physical education courses include history, rules and basic techniques in individual and team sports. Riding courses are available for credit, but require a special fee. Health 100 provides up-to-date information about modern health problems confronting people of all ages. Discussion is encouraged to give students the opportunity to share personal experiences, resource materials and problem solving techniques. The impact of personal and environmental health problems on our society is also covered.

Health Education

100 - Contemporary Health Problems (3)

Physical Education

(Courses may be repeated for additional credit, but no more than 8 credits may be counted toward the 122 credits required for graduation.)

Course Offerings

101, 301 - Field Hockey (1, 1)
Hollibaugh (Fall semester).

103, 303 - Basketball (1, 1)
Davies (Fall/Spring).

105, 305 - Volleyball (1, 1)
Gordon (Spring).

109, 309 - Lacrosse (1, 1)
Staff (Fall).

113, 313 - Individual Exercise (1, 1)
Staff (Fall/Spring).

113A, 313A - Individual Exercise - Weight Training (1, 1)
Staff (Fall/Spring).

113B, 313B - Individual Exercise - Aerobics (1, 1)
Staff (Fall/Spring).

116, 316 - Swimming (1, 1)
Staff (Fall/Spring).

119, 319 - Flag Football (1, 1)
Staff (Fall).

123, 323 - Soccer (1, 1)
Gordon (Fall).

133, 333 - Tennis 1, 1)
Staff (Fall/Spring).

145, 345 - Badminton (1,1)
Gordon (Fall/Spring).

147 - Elementary Position and Control in Riding (1)
Designed for those who have never ridden hunt seat. Material covered: General handling of the horse, basic terminology; riding at the walk, trot and canter, using elementary aids. Miller (Fall/Spring).

147A - High Elementary Position and Control in Riding (1)
Designed for those who have limited experience in riding or those who have taken 147. Material covered: Review of 147; introduction of soft contact and jumping over low fences on loose reins. Miller (Fall/Spring).

150 - First Aid (1)
Hollibaugh (Fall/Spring).

247 - Low Intermediate Position and Control in Riding (1)
Material covered: The beginning of soft, precise controls; coordination of the rider's aids with the horse's efforts. Continuation of jumping fundamentals and crest release; work over simple courses. Miller (Fall/Spring).

247A - High Intermediate Position and Control in Riding (1)
Prerequisite: One semester of riding at MWC or by permission of the instructor. Material covered: further development of contact. All movements recognized in the forward school of riding to be developed. Riding cross country and over more difficult courses. Miller (Fall/Spring).

315 - Advanced Life Saving (1)
Richards (Fall/Spring).

347 - Advanced Equitation, Schooling and Competition (1)
Prerequisite: One year of riding at MWC or demonstration of thorough understanding of the forward school of riding. Material covered: preparation of student horses for competition; schooling of green horses, reschooling of problem horses; preparation of IHSA open riders for competitions. Miller (Fall/Spring).

401 - Intercollegiate Women's Field Hockey (1)
Hollibaugh (Fall).

403 - Intercollegiate Basketball (1)
Men's - Davies; Women's - Gallahan (Fall/Spring).

405 - Intercollegiate Women's Volleyball (1)
Gallahan (Fall).

409 - Intercollegiate Lacrosse (1)
Men's - Staff; Women's - Hollibaugh (Spring).

415 - Water Safety Instruction (1)
Men's and Women's - Staff (Fall).

416 - Intercollegiate Soccer (1)
Men's - Gordon; Women's - Staff (Fall).

423 - Intercollegiate Soccer (1)
Men's - Gordon; Women's - Hegmann (Fall/Spring).

447 - Intercollegiate Riding (1)
Men's and Women's - Miller (Fall/Spring).

471 - Intercollegiate Cross Country (1)
Men's and Women's - Soper (Fall).

481 - Intercollegiate Track (1)
Men's and Women's - Soper (Spring).

Department of Historic Preservation

Carter L. Hudgins, *Chairperson*
John N. Pearce, *Career Adviser*

Faculty

Assistant Professors:
Carter L. Hudgins
John N. Pearce

Mary Washington College has the distinction of being the first academic institution in America to establish an independent Department of Historic Preservation. This Department offers an interdisciplinary major in Historic Preservation which acquaints students with the broad range of activities and theoretical perspectives that form the methodological and intellectual bases of historic preservation. Students may emphasize archives, architecture, historical archaeology, historic preservation, material culture, and historical museums in their course work and study in other academic disciplines, notably: Anthropology, Art History, Business, Economics, Geography, and History.

The Historic Preservation program is significantly enhanced by the location of the College in Fredericksburg, a city that is exceptionally rich in history from the eighteenth to the twentieth centuries. Fredericksburg and its historical resources, especially the architecture of the first half of the nineteenth century and the area's important industrial and milling sites, provide unsurpassed opportunities for fieldwork and research. The Department of Historic Preservation is conducting an intensive historical and architectural study of Fredericksburg and its environs and maintains an extensive research file in its offices. Students my publish the results of their research in a Department journal, *Sites and Structures*, and in reports which are prepared by the Department and distributed throughout the Commonwealth.

The Department of Historic Preservation is also enhanced by its close association with the Center for Historic Preservation. The Center, which shares offices with the Department in Monroe hall, sponsors lectures, workshops and seminars by nationally-acclaimed authorities who represent a broad range of professional interests and activities. The Center also hosts the semi-annual meeting of the Jamestown Conference on Archaeology and an annual preservation conference in the Spring.

The Department of Historic Preservation and the Center for Historic Preservation share an archaeological laboratory in Goolrick hall, and jointly carry out study programs which focus on the five counties of the Northern Neck at the College's Popes Creek Conference Center on the grounds of the George Washington Birthplace National Monument in Westmoreland County. This facility and the Department are equipped for architectural and archaeological fieldwork. Exhibits prepared by the Department's students are displayed in Monroe Hall, the Rotunda of Trinkle Library, and Brompton, the residence of the President of the College.

Historic preservation students have additional opportunities to participate in preservation projects through the activities of the Preservation Club. The Club sponsors field trips and has undertaken a number of preservation-related projects in and near Fredericksburg.

Historic Preservation students are also eligible for several scholarships including the Albert J. Bowley Scholarship and the Annie Fleming Smith Scholarship which include affiliation, respectively, with the James Monroe Law Office Museum and

Memorial Library and Kenmore, the eighteenth century residence of Colonel Fielding Lewis and his wife Betty Washington Lewis, and the J. Binford Walford Scholarships which are awarded to students who plan to pursue careers in architecture.

The Department of Historic Preservation is a member of the National Council on Preservation and meets the criteria established by that organization for a major in historic preservation.

Historic Preservation

Historic preservation is the interdisciplinary study of the physical remains of life past and the development of plans for their use in the present and future. Historic preservation identifies, evaluates, analyzes, and interprets sites, structures, and objects by drawing on the perspectives of a wide range of academic disciplines. Analytical skills which range from quantitative methods to the interpretative devices which emanate from structural anthropology and historical criticism are some of the tools which lead to an understanding of the interrelations between historical events and the ideas which inspired them. While historic preservation is concered with the conservation of historic sites and structures, it is an area of study that provides the opportunity for students to develop critical facilities that will allow them to arrive at a deeper and richer understanding, not only of themselves, but of the ramifications of technological innovation and their relationship to social change.

Majors in Historic Preservation explore the fundamental theoretical, philosophical, and ethical issues which underlay historic preservation and acquire intellectual and professional skills in preservation courses, study in related academic disciplines, and hands-on involvement in preservation activities in and near Fredericksburg. Students in historic preservation are particularly well prepared in the identification, recovery, interpretation, conservation, and restoration of historic structures and sites.

The major in Historic Preservation is excellent preparation for careers in government service, banking, finance, and real estate, as well as entry-level positions in museums, archives, architectural history, and historical archaeology. Historic Preservation is also an appropriate major for many as a pre-professional field, especially for students interested in the legal profession.

Requirements for the Major

In Major Subjects: 30 credits required in Historic Preservation 201, 202, 301, 305, 307, 350, 405; and 9 elective credits in Historic Preservation at the upper-level selected from among: Historic Preservation 303, 401, 403, 407, 420, 465, 466S, 471, 491, 499.

In Other Subjects: Art History 114, 115; History 401, 402; and 6 credits selected from among: American Studies 302; Anthropology 201, 322; Art History 352, 360, 361, 362; Business Administration 231, 232, 300, 310; Economics 381; Geography 201, 221, 230, 235, 320, 330, 422; History 101, 102, 103, 303, 307, 308, 309.

Course Offerings

201, 202 - Principles of Historic Preservation (3, 3)
Survey of the preservation field, with attention to historic, social, economic, political, legal and environmental issues, and to the basics of recording sites and structures. Should be taken in sequence: Fall, 201, Spring, 202. Pearce.

301 - Introduction to History Museums (3)
Survey of the history, philosophy, ethics and management of history museums and historic house museums, including curatorship and interpretation. Pearce (Fall).

303 - Archives and Society (3)
Examination of the theory and practice of archival work, including the preservation and cataloging of manuscript collections and other archives. Staff (Alternate years. Spring 1988).

305 - American Building (3)
An overview of the evolution of American building from the dwellings and towns America's earliest generations constructed in the seventeenth century to the glass and steel towers that dominate our post-modern skylines. Special emphasis is given to regional variation in American vernacular architecture and building technologies and to the techniques of conserving historic structures. Hudgins (Fall).

307 - The Archaeology of America's Earlier Generations (3)
The archaeology of North America since the arrival of European man. Special emphasis will be placed on gaining a critical understanding of the methods of historical archaeology and how archaeology can be used as a perspective for the writing of American history. Hudgins (Spring).

350 - American Material Culture (3)
The interpretation of artifacts in the American landscape, past and present, and their cultural and historical contexts. Topics will include vernacular and academic architecture, costumes, foodways, ceramics, and mortuary art. Staff (Spring).

401 - The Decorative Arts (3)
A survey of the styles and uses of furniture and other decorative arts in America from the 17th century to the present, with emphasis on research about a selected group of objects. Pearce (Spring 1988).

403 - Industrial Archaeology (3)
Investigation of the origins and evolution of industrial and engineering history, through intensive analysis of physical remains, documentary and oral history, and other records of industrial and engineering sites, structures, and processes. Pearce (Spring 1987).

405 - Research and Planning in Historic Preservation (3)
Prerequisite: Historic Preservation 201, 202. An intensive, research-based study of preservation planning, with emphasis on the identification, inventorying, and analysis of sites and structures in their geographical, historical, and socioeconomic contents, and attention to planning for present and future uses. Pearce (Each semester).

407 - Documentation and Fieldwork
Prerequisite: Historic Preservation 201, 202. Analysis of historic structures with emphasis on measured drawings and photographs as primary documentary methods. Staff (Fall 1987).

420 - Issues in Historic Preservation (3)
Prerequisite: Historic Preservation 201, 202. Seminar investigating social, economic, political, legal and environmental issues that affect the contemporary practice of historic preservation. Pearce (Spring 1988).

465 - Field Methods in Historical Archaeology (3)
Prerequisite: Historic Preservation 307 or permission of the instructor. Introduction to the field techniques of recording, documenting, and excavating historic archaeological sites, including work on sites near Fredericksburg and examination of other sites in the region. Hudgins (Summer).

466S - Practicum in Historic Preservation (3)
Prerequisite: Historic Preservation 201 or permission of the instructor. Hands-on preservation work under the direction of master craftsmen and permanent faculty,

with discussions about the processes of conserving sites and structures. Pearce (Summer).

471 - Special Studies in Historic Preservation (3)
Prerequisite: Historic Preservation 201, 202 or permission of the instructor. Seminar on a selected topic within the preservation field. Staff (Fall).

491 - Individual Study in Historic Preservation (3)
Prerequisite: Historic Preservation 201, 202 or permission of the instructor. Individual investigation, under the director of a faculty member, of a significant subject in historic preservation. Staff (Upon Demand).

499 - Internship in Historic Preservation (credits variable)
Prerequisite: Historic Preservation 201, 202 and appropriate additional course work in historic preservation. Field experience with a preservation-related agency outside the College, supervised by a faculty member. Credits variable; up to 3 credits may be applied toward the major. Staff (Upon Demand).

Department of History and American Studies

Arthur L. Tracy, *Chairperson*
Claudine L. Ferrell, *Career Adviser for History*
Glen R. Thomas, *Career Adviser for American Studies*

Faculty

Commonwealth Professor in History:
James Farmer, 1986-1987

Professors:
Roger J. Bourdon
Willam B. Crawley, Jr.
Glen R. Thomas
Joseph C. Vance
Benjamin F. Zimdars

Associate Professors:
Otho C. Campbell
Key Sun Ryang
Arthur L. Tracy
Richard H. Warner

Assistant Professors:
Porter R. Blakemore
Claudine L. Ferrell

The Department of History and American Studies contains two distinct but related major programs. The History major focuses primarily on European and American History, supported by Latin American and Far East History. It is not an interdisciplinary major but courses taken in related fields do enhance the value of the major. The American Studies major focuses on the study of the American culture and is interdisciplinary. It uses traditional historical information and traditional sources, but it also uses sources from other disciplines, especially from literature and the fine arts. In this manner, both majors are mutually supportive, while they differ in methodology.

History

The goal of the History program is to produce graduates able to understand and solve historical problems and capable of independent, critical judgment based on historical knowledge. Such individuals might go on to any number of careers, but the qualities of mind would be invaluable in all cases. Because the discipline re-

quires the ability to analyze and communicate ideas as well as to retain factual information, it is an ideal preparation for law school or for a career in library or archival work, for journalism or media research, or for a business career.

The History curriculum itself, which is widely diversified, has several distinctive features, including a series of introductory courses which divides Western Civilization and American History into component periods, thereby allowing prospective majors to select areas of particular interest. These courses are also appropriate for the general interest of non-majors and may be especially useful for students planning to major in related fields.

The History program offers some twenty-five 400 level Special Studies seminar-style courses which present a variety of topics of historical significance. Seminars on Franklin Roosevelt and Nazi Germany are examples of Special Studies courses. These seminars provide opportunity for extensive student participation in the exchange of ideas. An internship option enhances the program by granting credit for certain history-related, career-oriented work outside the classroom.

The Honors program offers majors the opportunity of earning Honors in History. The Honors award requires good academic standing and superior work in History 495, Historical Research. Final approval for Honors is determined by a departmental Honors Committee.

There are two student organizations within the Department that offer students the opportunity to participate in social and educational activities: Phi Alpha Theta, the National History Honorary Society, and the History Club. Both of these student organizations enrich the quality of the History program. Mr. Porter Blakemore is faculty advisor to these two organizations.

Requirements for the Major

In Major Subject: 30 credits in History courses beyond the 200 level, of which at least nine must be at the 400 level including 471 and 495. History 499 (internship) may not be used to fulfill any part of this latter requirement. At least nine credits must be taken outside any primary area of concentration.

Course Offerings

101 - Early America: 17th and 18th Centuries (3)
Discovery, exploration, settlement and expansion of the colonies, the era of the Revolution; the Confederation; establishment of the Constitution. Staff (Each semester).

102 - Middle America: 19th Century (3)
Development of the party system; rise of Jacksonian democracy; slavery and sectionalism; the Civil War and Reconstruction; the emergence of industrial America. Campbell (Each semester).

103 - Modern America: 20th Century (3)
Development of the United States as a world power from 1900 to the present, with emphasis on social, economic, political and diplomatic developments. Staff (Each semester).

111 - Western Civilization I: Ancient Period (3)
From the origins in Mesopotamia through Classical Greece, the Hellenistic World and the Roman Republic to the decline of the Roman Empire. Zimdars (Each semester).

112 - Western Civilization II: Medieval Period (3)
From the fall of the Roman Empire to the Renaissance, with emphasis on the church, feudal institutions, medieval thought and the origins of modern national institutions. Ryang (Each semester).

113 - Western Civilization III: Early Modern Period (3)
From the Renaissance and Reformation through the Age of Absolutism and the

Enlightenment to the French Revolution and Napoleon. Warner (Each semester).

114 - Western Civilization IV: Modern Period (3)
From 1815 to the present, with emphasis on cultural, intellectual and political developments, the World Wars, fascism and communism. Blakemore (Each semester).

200 - Topics in History (3)
Various historical subjects are chosen according to timely interest. Specific topics are announced in semester class schedules. Staff.

301, 302 - Diplomatic History of the United States (3, 3)
First semester: analysis of American foreign relations from colonial period to 1860. Second semester: 1860 to present. Campbell (Each year).

303 - The American South (3)
Slavery and the plantation system, rise of sectionalism, Civil War and Reconstruction, the era of segregation and the civil rights movement. Crawley (Fall, 1986).

304 - The Civil War (3)
Development of Southern nationalism and the Confederacy, emphasis on social, economic and political, as well as military aspects of the War. Tracy (Each Fall semester).

305 - The Frontier in American History (3)
Western movement across the continent from colonial beginnings to the present; impact of frontier experience on American attitudes and values. Bourdon (Fall semester). Writing intensive.

306 - The Black in American History (3)
Development of racism, the slavery experience, the segregation era, the civil rights movement and the rise of black militancy. Ferrell (Fall, 1987).

307, 308 - Social History of the United States (3)
Changing patterns of thought and social life in America, emphasizing the impact of Darwinism and industrialism. Tracy (1987-1988).

309 - The American Indian (3)
From pre-history to the present, with emphasis on differences among Indians and on interaction between Indians and whites. Bourdon (Each Spring semester).

311, 312 - History of Virginia (3)
First semester, English origins and colonial developments through the Revolutionary era; second semester, Jeffersonian period to the present. Staff (Each year).

331 - Ancient Greece (3)
Geography, history and civilization of Greece from the earliest times through the death of Alexander the Great. Campbell (Fall, 1987).

332 - Ancient Rome (3)
Formation, development and demise of the Republic; Augustus and the Empire; and the impact of Christianity. Blakemore (Spring, 1988).

333 - The Renaissance and Reformation (3)
Growth of Italian city-states, the new philosophy of man, Christian humanism and the spread of Protestantism. Ryang (Each semester).

351, 352 - History of England (3)
Survey of English history from beginning to present with emphasis on economic and political aspects and growth of British empire. Zimdars (Each year).

353, 354 - History of France (3, 3)
First semester, Gaul and the Franks to French Revolution and Napoleon; second semester, Restoration Era to deGaulle. Warner (Each year).

356 - History of Germany (3)
From the wars of unification to the present, with emphasis on the era of Bismarck, World War I, Weimar Republic, Third Reich and Cold War. Blakemore (Spring, 1988).

357, 358 - History of Russia (3, 3)
First semester, Kiev, Muscovy and Imperial Russia to 1856; second semester, the last Romanovs, Revolution and Soviet Period. Warner (Each year).

359, 360 - History of Spain (3, 3)
From Moorish invasions to the present, with emphasis on social and economic developments from the 16th century to the modern age. Zimdars (1987-1988).

361, 362 - History of Latin America (3, 3)
Colonial institutions, the independence movement, development of modern states, the Organization of American States and other international problems. Zimdars (1986-1987).

364 - History of Japan (3)
Social, political and intellectual development of Japan from the earliest times to the present; emphasis on the rise of Japan to world power. Ryang (1986-1987).

365, 366 - History of China (3, 3)
Social, political and intellectual development of China from the earliest times to the present; emphasis on the rise of modern nationalism, Maoist period. Ryang (1986-1987).

371 - European Diplomatic History to 1871 (3)
Development of the Modern state system from the Thirty Years War through Napoleon and into the middle of the 19th century. Blakemore (Fall, 1987).

372 - European Diplomatic History Since 1871 (3)
From the unification of Germany through the two world wars to detente. Blakemore (Each Spring semester).

375 - Military History (3)
The art of war and its impact on society from 18th century to present; military developments analyzed in terms of organization, strategy and technology. Blakemore (Fall, 1986).

380 - United States since 1945 (3)
Emphasis on major issues of the postwar era, including the Cold War, McCarthyism, civil rights movement, Vietnam, black militancy and feminism. Ferrell (Each semester). Writing intensive.

381 - Europe since 1945 (3)
From end of World War II to present, with emphasis on Cold War, Common Market, colonial independence movements and domestic developments. Blakemore (Each Fall semester).

382 - Far East since 1945 (3)
Cultural, social, economic and political developments in modern China, Japan, and Korea, with emphasis on relations of those countries with United States and Soviet Union. Ryang, (Each Spring semester).

401, 402 - United States Cultural and Intellectual History (3, 3)
Development of American culture and ideas through major historical figures and events; emphasis on law, science, religion and reform. Tracy (1986-1987).

411 - European Cultural and Intellectual History to the Enlightenment.
Analysis of significant developments in philosophical, political, religious, social and scientific thought, and their impact upon European culture from the Renaissance through the Enlightenment. Warner (Upon Demand). Writing intensive.

412 - European Cultural and Intellectual History Since the Enlightenment (3)
Analysis of significant developments in philosophical, political, religious, social and scientific thought, and their impact upon European culture from the 18th century to the present. Blakemore (Spring, 1987). Writing intensive.

471 - Special Studies in History (3)
Prerequisite: junior or senior status. Seminars on related topics of particular historical importance. See schedule of courses each semester.

481 - Historiography (3)
Prerequiste: junior or senior status. The study of historical interpretaion with emphasis on the major developments which have shaped the discipline of history. Zimdars (Spring, 1988). Writing intensive.

491 - Individual Study (3)
Prerequisite: permission of the instructor. Individual investigation of a subject of historical significance, directed by a member of the Department. Staff (Upon Demand).

495 - Historical Research (3)
Prerequisite: junior or senior status. Introduction to methods of historical research and writing, involving in-depth investigation of a subject of the student's choice. Staff (Each semester). Writing intensive.

499 - Internship
Supervised off-campus experience, developed in consultation with the Department. Credits variable. No more than 3 internship credits may be earned in the major.

American Studies

The American Studies program is interdisciplinary in nature, designed to provide students with a flexible, multi-faceted approach to the study of American society. Since the major provides much latitude in the selection of courses, students are encouraged to work closely with the Career Adviser in choosing courses which will form a cohesive program.

The American Studies seminars, ordinarily taken in the junior and senior years, help students to integrate courses in the various areas into a meaningful understanding of American culture. While the seminars range broadly across American culture, their emphasis is upon the late 19th and 20th centuries, with the aim of identifying and analyzing major characteristics of modern technological society, clarifying its values and assumptions, and relating the present to the past and future. The seminar method of instruction is central to the program, and offers each student ample opportunity to participate fully in the learning process.

The American Studies major provides excellent preparation for students interested in law, journalism and communications, library science, museum work, teaching, and many areas of public service.

Requirements for the Major

American Studies 301, 302, 401, 402.

Additional major requirements: 24 credits from five main areas; American history, American literature and philosophy, American social sciences, American fine arts, and non-American civilization; no more than 6 credits in any one area; courses to be selected in consultation with Career Adviser.

Course Offerings

301 - Issues in Contemporary American Culture (3)
An examination of selected current issues in American culture, specific issues will vary from year to year. Thomas (Each Spring semester).

302 - The Fine Arts in America
Examples of modern music, dance, and drama are studied to illustrate the role of fine arts in American culture. Thomas (Each Fall semester).

401 - Mass Media and American Culture (3)
A study of the uses and influences of mass media in shaping social values. Emphasis on television and journalism. Thomas (Each Fall semester).

402 - Impact of Darwin and Freud on American Thought (3)
An examination of the influences of social Darwinism and psychoanalytic theory on 20th century American thought. Thomas (Each Spring semester).

491 - Individual Study (3)
Directed individual research on problems in American studies, as approved by the Career Adviser. Thomas (Each semester).

499 - Internship
Supervised off-campus experience, developed in consultation with the Career Adviser. No credit in the major for internship. Thomas (Each semester).

Interdisciplinary Studies

This course will be designed by faculty members from several disciplines to illustrate the interrelatedness of human knowledge. It is intended primarily for the Distribution Areas.

201 - The Creative Process in Art and Literature (3)
The course exposes students to the creative process in art and literature through drawing and writing exercises. Students learn how to conceptualize and express themselves in both media, and through exposure to historical examples of artists who write about art and writers who illustrate their work, they develop an understanding of the interrelationship of the creative process in the two media and of the standards for critical judgment.

International Affairs
See Department of Political Science and International Affairs.

Italian
See Department of Modern Foreign Languages.

Latin
See Department of Classics, Philosophy and Religion.

Library Science

The ability to make use of library resources is essential to a liberal arts education. The offering in Library Science is designed to enhance student awareness of library resources in general and the College library and its resources in particular.

Course Offering

101 - Library Resources and Their Use (1)
Introduction to college library resources with emphasis on techniques of research. Taught by a College reference librarian.

Linguistics
See Department of English, Linguistics and Speech.

Department of Mathematics and Computer Science

Stephen L. Lipscomb, *Chairperson*
John H. Reynolds, *Career Adviser - Computer Information Science*
Patricia J. Pierce and John R. Tucker, *Career Advisers - Mathematics*

Faculty

Associate Professors:
Ernest C. Ackermann
Stephen L. Lipscomb
Patricia J. Pierce
John H. Reynolds
Janet G. Zeleznock

Assistant Professors:
Manning G. Collier
Betty P. Durrer
J. Larry Lehman
Donald R. Peeples
John R. Tucker
Marsha F. Zaidman
Richard M. Zeleznock

Instructor:
Mansour M. Akbari-Zarin

Mathematics

The courses in Mathematics vary from the theoretical to the applied so that a major in mathematics can be a foundation for a career in industry, government, teaching or for the pursuit of a higher degree in graduate school. The Department also encourages double majors, giving students entrance to a wide variety of fields upon graduation.

Requirements for the Major

In the Major Subjects: 24 credits in Mathematics courses beyond 207, including 331, 332, 341, 342, 379, 479 and at least two 400-level, 3-hour courses excluding 499. (251, 305, and 499 cannot be counted in the major)

Additional Major Requirements: 12 credits from the following: Any Mathematics courses above Mathematics 207 (except MATH 305), any courses in Computer Science above CPSC 215, any courses in Physics (except PHYS 103, 104), Philosophy 306.

Course Offerings

111 - Precalculus (3)
Emphasis is on elementary functions including rational, exponential, logarithmic and trigonometric functions. Staff (Each semester).

121 - Calculus I (3)
First course in calculus. Includes introduction, limits including proofs, derivatives, Newton's method, antiderivatives, and rectilinear motion. Staff (Each semester).

122 - Calculus II (3)
Prerequisite: MATH 121. Includes definite integration and its applications including work, logarithmic, exponential, inverse trigononmetric, and Hyperbolic functions, techniques of integration, and improper integrals. (It is advised that prospective mathematics majors complete this course before the fall of their sophomore year.) Staff (Each semester).

125 - Introduction to Discrete Structures (3)
An introduction to topics which may include induction, recursion, algorithms, set theory, combinatorics, graphs, trees, and finite-state machines. (It is recommended that prospective mathematics majors take this course during the freshman year.) Staff (Each semester).

200 - Introduction to Statistics (3)
First course in statistical methods. Includes descriptive and inferential techniques with examples from diverse fields. Staff (Each semester).

207 - Mathematics and Humanity from Alpha to Omega (3)
Prerequisite: Any one of MATH 111, 121, 125, 200, or permission of the instructor. A concise survey of the historical development of mathematical ideas, followed by a more focused look at several 20th century concerns of mathematics. Readings on the lives and impact of pre-eminent mathematicians form the survey's framework. The latter focal topics will vary with instructor, but might include: the power of pure abstraction, ideas that shook the world, unexpected applications, famous paradoxes and problems, mathematics and the computer. Staff (Fall semester).

223 - Calculus III (3)
Prerequisite: MATH 122. Includes L'Hopital's rules, infinite series, rotation of axes, polar coordinates, parametric equations, 2- and 3-dimensional vectors, spheres, and cylinders. Staff (Each semester).

224 - Calculus IV (3)
Prerequisite: MATH 223. Includes three-dimensional space, partial derivatives, multiple integrals, line integrals, surface integrals, and other more advanced topics in calculus. Staff (Each semester).

251 - Basic Numerical Mathematics (3)
Prerequisite: MATH 121. Recommended: MATH 122 concurrently. An introduction to the numerical methods for evaluating expressions, finding zeros, numerical integration, solving simultaneous linear equations, etc., using the computer as a tool. Staff (Upon Demand).

300 - Linear Algebra (3)
Prerequisite: MATH 122. An introduction to linear algebra. Usually includes matrix algebra, systems of equations, vector spaces, inner product spaces, linear transformations, and eigenspaces. (Mathematics majors should take this course concurrently with MATH 223.) Staff (Each semester).

305 - Mathematics for Teachers (3)
This course will cover those topics with which prospective elementary teachers must be familiar. Credit will be granted only to those students who are enrolled in a teacher certification program. Staff (Once a year and upon demand).

312 - Differential Equations (3)
Prerequisite: MATH 122. Recommended: MATH 223. Ordinary differential equations which may include Laplace transformations, spring problems, approximations, and partial differential equations. Staff (Each semester).

321 - Number Theory
Prerequisite: MATH 122 or permission of instructor. An elementary, theoretical study of the properties of the integers. Staff (Usually Spring).

325 - Discrete Structures (3) (Same as CPSC 325)
Prerequisite: MATH 122, 125, and CPSC 221. A survey of topics selected from Boolean algebra, functions and relations, logic and networks, equivalence, recursion, principles of combinatorics, inclusion-exclusion, graph theory, semigroups, lattices, finite state machines, Turing thesis, computational complexity, codes, and posets. Staff (Each semester).

331, 332 - Abstract Algebra (3, 3)
Prerequisite: MATH 300 or permission of instructor. Mathematical systems including groups, rings, fields, and vector spaces. Only in sequence. Staff (331-Fall; 332-Spring).

341, 342 - Real Analysis (3, 3)
Corequisite or prerequisite: MATH 224. Recommended: MATH 300. A rigorous, real analysis approach to the theory of calculus. Only in sequence. Staff (341-Fall; 342-Spring).

351, 352 - Numerical Analysis (3, 3)
Prerequisites: MATH 300, 312, and CPSC 221. Numerical methods applied to solutions of equations, interpolation, differentiation, integration, and solutions of differential equations. Only in sequence. Staff (351-Fall; 352-Spring).

372 - Non-Euclidean Geometry (3)
Prerequisite: MATH 331 or 341. An axiomatic development of non-Euclidean geometrics. Staff (Spring semester, 1987).

379 - Junior Seminar (2)
Prerequisite: MATH 224 and junior standing. Focuses upon one or more subjects which are not addressed in other mathematics courses. Representative subjects include foundation of mathematics, naive (formal) set theory, axiomatic development of the natural numbers, rigorous construction of the real numbers, and foundations of topology in 2- and 3-dimensional Euclidean space. Each student will be assigned topics to present in concert with the instructor's lectures. Staff (Spring semester).

401, 402 - Probability and Statistical Inference (3)
Prerequisite: MATH 224. An introduction to probability theory and theoretical statistics including probability distribution of discrete and continuous random variables, functions of random variables, methods of estimation, multivariable probability distributions, and hypothesis testing. Only in sequence. Staff (401-Fall; 402-Spring).

412 - Complex Variables (3)
Prerequisite: MATH 341. Analytic functions, Cauchy-Riemann conditions, integration, power series, calculus of residues, conformal mappings and applications. (Highly recommended for those students planning to go to graduate school.) Staff (Usually one a year).

441 - General Topology (3)
Prerequisite: MATH 331 or 341. Point-set theory including connectedness, compactness, continuity and metric space. (Highly recommended for those students planning to go to graduate school.) Staff (Fall semester).

461 - Topics in Mathematics (3)
Prerequisite: permission of instructor. A semester study of topics such as advanced topology, partial differential equations, optimization, Fourier series, advanced complex variables, ring theory, and modelling. May be taken up to three times for credit. Staff (Upon Demand).

479 - Senior Seminar (1)
The student must research and present a senior level mathematics topic to the class and the mathematics faculty. Staff (Upon Demand).

491, 492 - Directed Study (1-3, 1-3)
Prerequisite: departmental permission. Individual study under the direction of a faculty member. May lead to graduation with Honors in Mathematics. Staff (Upon Request).

499 - Internship (1-6)
Supervised off-campus experience, developed in consultation with the Department. Credits variable. (Upon request).

Computer and Information Science

Computer Science is a relatively new discipline and in its infancy. It is a very dynamic area of study due to the increase in the complexity and number of applications of computers in current society as well as the rapid changes in the supporting technology. Changes are occurring so rapidly that in order to remain current in the discipline one must have a firm foundation in its basic principles and techniques. It is our goal to provide that foundation as well as be concerned with topics from the forefront of the discipline whenever possible. As seen below, the major consists of a basic core of courses in the discipline, some related courses in Mathematics, Physics, or Philosophy, and at least two upper-level courses in Computer Science which may be chosen from offerings that meet the student's interest. Furthermore, the program is designed so that there are appropriate entry points for students with or without previous study/experience in the field.

The course offerings follow the guidelines embodied in the recommendations of the Association for Computing Machinery, ACM Curriculum '78. Frequently, other courses are offered that reflect specialties of the staff. Most recently these have included courses in Simulation Techniques, Digital Design, and Computer Graphics. Additionally there is opportunity for individual study projects as well as projects leading to graduation with honors. Ample opportunities exist for student internships under the sponsorship of local industry. Employment opportunities are abundant. Our graduates are well prepared for graduate study or employment in areas which emphasize the application of computers to problems which are technical or scientific in nature.

The principal hardware support for the program is provided by a network consisting of a PRIME 750 computer and two PRIME 2250 computers. Over fifty terminals on campus provide access to the system for students and faculty. There are several printers, graphics terminals devices, and several microcomputers available to students in the Computer Science Program. Please see the section of the Catalog describing the Center for Academic Computing for more details.

Requirements for the Major

In Major Subject: 30 credits in Computer and Information Science including 24 credits from 125, 222, 301, 311, 320, 321, 401, and 405; and 6 credits chosen from Mathematics 351 (Numerical Analysis) or any Computer Science course above Computer Science 321 not in the previous list.

Additional Major Requirements: 6 credits chosen from any Computer Science course above Computer Science 321, any Mathematics course numbered 300 or above (except for Mathematics 305), Philosophy 152, 306, Physics 201, 202 or any Physics course at or above Physics 311. Please note that MATH 122 (Calculus II) is a prerequisite for CPSC 320 and should be taken before the junior year. Naturally, courses chosen to satisfy preceding requirements for the major cannot satisfy the requirements in this category.

Course Offerings

101 - Introduction to Computers (3)
Introduction to computers, structure of computer systems, programming in an introductory language such as BASIC, experience with large and small computer systems, and exposure to such topics as text editing and processing, business applications, and scientific applications as well as a discussion of the social economic impacts of computer use. This course cannot be taken for credit after any Computer Science course numbered 200 or higher. Staff (Every semester).

102 - Computer Themes and Applications (3)
Introduction to the use of personal computers in academic, business, and other endeavors. An examination and discussion of the issues concerning their widespread application to currenty society. Topics covered are drawn from areas such as word processing, information management, ethics of computer use, artificial intelligence, computers and education, and programming languages. Staff (Every semester).

125 - Introduction to Discrete Structures (3)
An introduction to Induction, Recursion, Algorithms, Set Theory, Combinatories, Graphs, Trees, and Finite State Machines. (Same as MATH 125, Introduction to Discrete Structures). Staff (Every semester).

211 - Programming in COBOL (3)
Computer organization, programming, algorithm development and applications in COBOL. Staff (Every semester).

215 - Advanced COBOL Programming (3)
Prerequisite: Computer Science 211. The design and development of structured programs that create and maintain advanced file structures. Advanced programming concepts such as the use of the sort utility and other external modules. Staff (Spring semesters).

221 - Computer Programming I (3)
Corequisite: Mathematics 121 or Computer Science 125. Algorithm development and program design. Structured implementation and documentation techniques. The programming language introduced and used in this course is FORTRAN 77. This course is intended for students with little or no background in programming in a language such as FORTRAN or PASCAL. Staff (Every semester).

222 - Computer Programming II (3)
Prerequisite: Computer Science 221 or permission of the instructor. Corequisite: Computer Science 125 or Mathematics 121. Algorithm development and program design. Elementary data structures such as linked lists, queues, stacks, and binary trees. The programming language introduced and used in this course is PASCAL. This course is for students who have taken Computer Science 221 or who have had experience writing programs using functions and subroutines in a language such as FORTRAN or PASCAL. Staff (Every semester).

301 - Computer Systems and Assembly Language Programming (3)
Prerequisite: Computer Science 222. Computer structure and machine language; number representation and arithmetic; assembly language; addressing techniques; macros; subroutine linkages and recursion; anatomy of assemblers and loaders. Staff (Fall semesters).

311 - Computer Organization (3)
Prerequisite: Computer Science 301. Basic logic design; algebraic and graphical minimization techniques, flipflops; characteristics of hardware components; introduction to computer architecture. Staff (Spring semesters).

320 - Statistics for Computer Scientists (3)
Prerequisites: Mathematics 122 and Computer Science 221. A calculus-based mathematical statistics course with special emphasis on applications in computer science. Staff (Every semester).

321 - Introduction to Data Structures (3)
Prerequisite: Computer Science 222. Introduction to techniques for implementing data structures such as lists, queues, stacks, and trees. Applications of these structures in various situations including file processing. Staff (Every semester).

325 - Discrete Structures (3)
Prerequisites: Mathematics 122, 125 and Computer Science 221. Mathematical

models, sets, binary relations and functions, graphs, counting and algebras. (Same as MATH 325: Discrete Structures) Staff (Every semester).

401 - Organization of Programming Languages (3)
Prerequisites: Computer Science 301, 321. An applied course in programming language construction emphasizing the run-time behavior of programs. Staff (Fall 1986, Spring 1987).

405 - Operating Systems and Computer Architecture I (3)
Prerequisites: Computer Science 311, 321. Topics include: interrupts, paging and segmentation, CPU scheduling strategies, microprogramming, massive parallelism, and memory hierarchies. Staff (Spring 1987, Fall, 1987).

411 - Data Structures and Algorithm Analysis (3)
Prerequisite: Computer Science 321. Application of analysis and design techniques to nonnumeric algorithms which act on data structures. Selection of methods for data manipulation. Staff (Upon Demand).

431 - Operating Systems and Computer Architecture II (3)
Prerequisite: Computer Science 405. Continued development of the material in Computer Science 405. Staff (Upon Demand).

441 - Theory of Programming Languages (3)
Prerequisite: Computer Science 401. A formal treatment of programming language translation and compiler design concepts. Staff (Upon Demand).

451 - Automata, Computability and Formal Languages (3)
Prerequisite: Permission of the instructor. A sampling of theoretical computer science. Includes finite state concepts, formal grammars, computability and Turing machines. Staff (Upon Demand).

470 thru 477 - Selected Topics in Computer Science (3)
Prerequisite: Permission of the Instructor. Treatment of selected topics in computer science. Most recently this has included topics such as Computer Graphics, Digital Design, and Simulation Techniques. Staff (Upon Demand).

491 - Individual Study in Computer Science (1-3)
Prerequisite: Departmental permission. Individual study under the direction of a member of the staff. May lead to graduation with Departmental Honors. Staff (Upon Demand).

499 - Internship
Supervised off-campus experience, developed in consultation with the Department. Credits variable, but only 3 credits may count toward the major. Staff (Upon Demand).

Department of Modern Foreign Languages

Sammy R. Merrill, *Chairperson*
Juliette Blessing, *Career Adviser - French*
Sammy R. Merrill, *Career Adviser - German*
Clavio Ascari, *Career Adviser - Italian*
Joseph Bozicevic, *Career Adviser - Russian*
Joanna Quann, *Career Adviser - Spanish*

Faculty

Professors:
Clavio Ascari
Juliette Blessing
Joseph Bozicevic
Margaret Hofmann

Associate Professors:
Rosemary Herman
John Manolis
Sammy Merrill
Vera Niebuhr
Aniano Pena
Joanna Quann

Assistant Professors:
Norma Batchelder
Cheryl Staunton

Through courses in French, German, Italian, Russian, and Spanish, the department offers students an opportunity to gain proficiency in comprehension, reading, writing, and speaking in one or more foreign languages.

Language laboratory facilities with cassettes, tapes, and records are used extensively to supplement classroom instruction. Also available are video cassette recorders and players, and a computer for computer-assisted instruction.

Upper level classes are conducted in the foreign language. Through classroom instruction, individual research and work in department-sponsored language clubs, students come to know the culture of the people whose language they are studying.

The department has major programs in French, German, and Spanish and provides majors an opportunity to reside in small campus residence halls in which the foreign language is spoken and which sponsor various inter-cultural programs each year. Currently each language house has as its resident director a native speaker of that foreign language. Interdisciplinary majors in Italian and Russian Studies are also possible through the Special Major program..

The Department cooperates with a variety of overseas study programs, advises and encourages students wishing to study abroad, and helps in planning their foreign study programs.

Graduates in modern foreign languages enter any number of governmental or private fields in which the knowledge of a foreign language and culture is essential, including interpreting, translating, research, social services, education, or international business.

See individual language listing: French, German, Italian, Russian, Spanish.

Literatures in Translation

The Department of Modern Foreign Languages offers the following courses on foreign literatures in English translation:

ITAL 395 - Dante's Divine Comedy.

ITAL 396 - Renaissance Masterpieces
(Petrarch, Boccaccio, etc.)

RUSS 295 - Russian Writers of the 19th Century
(Pushkin through Chekhov)

RUSS 296 - Russian Writers of the 20th Century
(Gorky through Solzhenitsyn)

RUSS 397 - Dostoevsky and Tolstoy

French

Requirements for the Major

Option A (Language and Literature): 30 credits in French beyond 201-202, including 291, 292, 297, 298, 299, 391, 392, 481 and 6 in other literature courses.

Option B (Language and Civilization): 36 credits in French beyond 201-202, including 291, 292, 293, 297, 298, 299, 315, 216, 391, 392, 481 and 3 in another literature course.

Course Offering:

101, 102 - Beginning French (3, 3)
Grammar, composition, conversation, reading, laboratory use. Staff (Every year).

201, 202 - Intermediate French (3, 3)
Grammar review, reading, oral work. Staff (Every year).

291, 292 - Studies in Language I (3, 3)
Prerequisites: French 201, 202. Grammar, composition, conversation. Staff (Every year).

293 - Business French (3)
Prerequisites: French 291, 292. Especially designed for those who may be connected with businesses dealing in France or French-speaking countries. Manolis (Every year).

297, 298, 299 - Survey of French Literature
A chronological study of French literature from the medieval period through the late 20th century. Staff (Every year).

315, 316 - French Civilization (3, 3)
Prerequisite: 3 hours of Survey of French Literature. Geography, history and the social, political and cultural background of France and the French people. Blessing (1987, 1988).

351 - Seventeenth Century Literature (3)
Prerequisites: 6 hours of Survey of French Literature. Corneille, Moliere, Racine, and other representative works. Manolis (Fall 1987).

361 - Eighteenth Century Literature (3)
Prerequisites: 6 hours of Survey of French Literature. Fiction, drama, and philosophy. Hofmann (Spring 1988).

371 - Novel of the Nineteenth Century (3)
Prerequisites: 6 hours of Survey of French Literature. Balzac, Flaubert, and Zola and short stories. Hofmann (Fall 1986).

372 - Nineteenth Century Poetry and Theater (3)
Prerequisites: 6 hours of Survey of French Literature. Lamartine, Hugo, deMusset, and Dumas. Manolis (Spring 1987).

381 - The Novel of the Twentieth Century (3)
Prerequisites: 6 hours of Survey of French Literature. Proust, Gide, Mauriac, and Malraux. Staff (Fall 1987).

382 - Twentieth Century Theater (3)
Prerequisites: 6 hours of Survey of French Literature. Claudel, Sartre, Anouilh, Giraudoux, and Beckett. Blessing (Fall 1986).

391, 392 - Studies in Language II (3, 3)
Prerequisites: French 291, 292. Advanced grammar, composition, conversation. Required of majors. Blessing (Every Year).

481 - Senior Seminar (3)
Selected topics. Required of senior majors. Staff (Every Year).

491, 492 - Individual Study (3, 3)
Intensive study of one or more authors selected by student in consultation with adviser. By permission of the Department. Staff (Upon Demand).

499 - Internship
Supervised off-campus experience, developed in consultation with the Department. Credits variable. No credit toward major.

German

Requirements for the Major

In Major Subject: 30 credits in German including 291, 292, 295, 296; 391, 392; and four other 300-400 level German courses selected from: 315, 371, 372, 381, 382, 481, 482.

Note: A student beginning in German 101 may request special permission in order to exceed the 40 credit limit for the major.

Course Offerings

101, 102 - Beginning German (3, 3)
Grammar, composition, conversation, reading, laboratory use. Staff (Every year).

201, 202 - Intermediate German (3, 3)
Prerequisites: German 101-102 or equivalent, Grammar review, reading, conversation. Staff (Every year).

291, 292 - Studies in Language I (3, 3)
Prerequisites: German 201-202 or equivalent. Grammar, composition, conversation. Merrill (Fall, Spring 1986-87).

295, 296 - Introduction to German Literature (3, 3)
Prerequisites: German 201-202 or equivalent. A study of representative authors, genres, and literary movements in the nineteenth and twentieth centuries. Staff (Every year).

315, 316 - German Civilization (3, 3)
Prerequisites: German 291 or 295, or equivalent. Survey of the culture and civilization of the German-speaking area. Niebuhr. (Upon Demand).

371 - German Classicism (3)
Prerequisite: German 296 or equivalent. The German *Hochklasskik* as seen in Goethe and Schiller. Merrill (Fall 1986).

372 - German Romanticism and Post Romanticism (3)
Prerequisite: German 296 or equivalent. Includes Tieck, Novalis, Kleist, Heine, Buchner and others. Niebuhr (Spring 1987).

381, 382 - Twentieth Century Literature (3, 3)
Prerequisite: German 296 or equivalent. Includes Hofmannsthal, Mann, Rilke, Musil, Kafka, Brecht, Durrenmatt, Frisch, Boll, Grass, Handke, and Wolf. 381 Merrill, 382 Niebuhr. (Not Scheduled).

391, 392 - Studies in Language II (3, 3)
Prerequisite: German 292 or equivalent. Advanced grammar, composition, conversation. Niebuhr (1987-88).

481, 482 - Seminar in German Literature (3, 3)
Prerequisite: German 296 or equivalent. Selected topics which vary from year to year. Staff (1987-88).

491, 492 - Individual Study (3, 3)
Intensive study of one or more authors selected by the student in consultation with adviser. Staff (Upon Demand).

499 - Internship
Supervised off-campus experience, developed in consultation with the Department. Credits variable. No credit toward major.

Italian

Course Offerings

101, 102 - Beginning Italian (3, 3)
Grammar, composition, conversation, reading, laboratory use. Ascari (Every year).

201, 202 - Intermediate Italian (3, 3)
Grammar review, reading, oral work, laboratory use. Ascari (Every year).

291, 292 - Studies in Language (3, 3)
Reading, conversation and composition in Italian with emphasis on communication and analysis of language through lectures and discussions. Ascari (1988-89).

315, 316 - Society and Civilization (3, 3)
Literary, social and cultural history of the Italian people from the fall of the Roman Empire to the 20th century. Ascari (1989-90).

373 - Nineteenth Century Literature (3)
Includes Manzoni, Foscolo, Leopardi, D'Annunzio, Verga, Pascoli, Carducci, Nievo. Ascari (1987-88).

381, 382 - Modern Italian Literature (3, 3)
From Pirandello to Montale; prose and poetry of Gozzano, Svevo, Ungaretti, Moravia, Carlo Levi, Cardarelli, Palazzeschi, Buzzati, Silone, and others. Ascari (Upon Demand).

383 - Modern Italian Literature (3)
From Pirandello to Montale; prose and poetry of Svevo, Ungaretti, Moravia, Carlo Levi, Buzzati, Silone, Pasolini, Calvino and others. Ascari (1986-87).

395 - Italian Literature in Translation, Dante's Divine Comedy (3)
Taught in English. A thorough study of the Divine Comedy in its historical and cultural background. Ascari (1986-87).

396 - Italian Literature in Translation: Masterpieces of the Renaissance (3)
Taught in English. A study of major Renaissance authors. Petrarch, Boccaccio, Cellini, Ariosto, Catiglione, Tasso, Machiavelli, etc. Ascari (1987-88).

491, 492 - Individual Study (3, 3)
Intensive study of one or more authors selected by student in consultation with adviser. Ascari.

499 - Internship
Supervised off-campus experience, developed in consultation with the Department. Credits variable. Ascari.

Russian

Course Offerings

101, 102 - Beginning Russian (3, 3)
Fundamentals of spoken and written Russian. Bozicevic (Every Year).

201, 202 - Intermediate Russian (3, 3)
Prerequisite: Russian 102 or equivalent. Review, completion of fundamentals, and reading. Bozicevic (Every Year).

215 - Russian Culture (3)
Survey of Russian cultural heritage: art, dance, folklore, geopolitics, literature, music, religion, screen, theater, etc. Conducted in English. Bozicevic (Spring).

291 - Reading, Composition and Conversation (3)
Prerequisite: Russian 202 or equivalent. Bozicevic (Fall).

295 - Russian Literature in English Translation - XIX Century (3)
Major Russian writers and literary trends with a brief survey of pre-Pushkin literary activity. Conducted in English. Bozicevic (Fall).

296 - Russian Literature in English Translation - XX Century (3)
Major Russian writers and literary trends from Gorky to Solzhenitsyn; transition from the Imperial to the Soviet era; from formalism to socialist realism. Conducted in English. Bozicevic (Fall).

300 - Phonetics, Morphology, Syntax (3)
Prerequisite: Russian 202 or equivalent. Sounds and transcription, structure, simple and compound sentences. Bozicevic (Fall 1987).

323 - Readings in Scientific Russian (3)
Prerequisite: Russian 202 or equivalent. Understanding and translating Russian popular science texts; familiarizing the student with terminology and great scientists in various disciplines. Bozicevic (Spring 1986).

324 - Readings in Commercial Russian (3)
Prerequisite: Russian 202 or equivalent. Understanding, translating, modern Russian business texts; composing and typing business letters. Bozicevic (Spring 1987).

397 - Dostoevsky and Tolstoy in English Translation (3)
Reading and analysis of two major novels with selective sampling of other representative works including literary criticism. Bozicevic (Fall).

491, 492 - Individual Study (3, 3)
Research on adviser-approved topic in language or literature. Not to duplicate any regular course.

499 - Internship
Supervised off-campus experience, developed in consultation with the Department. Credits variable.

Spanish

Requirements for the Major

Option A (Spanish Language and Literature): 30 credits in Spanish courses beyond 201-201, including 291, 292, 295, 296, 451; 3 credits in Spanish American literature, 6 credits in peninsular or Spanish American literature and 391, 392.

Option B: 36 credits in Spanish and related courses beyond 201-202, including 291, 292, 293, 295, 296, 325, 326, 391, 392, 482; 3 credits in History 361 or 362 and 3 credits in Political Science 321 or 322 or Economics 401. (Students beginning their study at the 201 level will require special permission to exceed the 40 credit limit.)

Course Offerings

101, 102 - Beginning Spanish (3, 3)
Grammar, composition, conversation, reading, laboratory use. Staff (Every Year).

201, 202 - Intermediate Spanish (3, 3)
Grammar review, reading, oral work, laboratory use. Staff (Every Year).

291, 292 - Studies in Language I (3, 3)
Grammar, composition, conversation. Staff (Each Year).

293 - Spanish for Professional Use (3)
Prerequisites: Spanish 291, 292. Study of specialized vocabularies and their application to various professions. Herman (Spring 1987).

295, 296 - Introduction to Spanish Literature (3, 3)
History and study of examples of Spanish literature from Middle Ages to present

day. Staff. (Every Year).

315 - Spanish Civilization (3)
Geography, history, and the social, political and cultural background of Spain and the Spanish people. Staff (Fall 1986).

316 - Spanish American Civilization (3)
Geography, history and the social, political and cultural background of Spanish America and the Spanish American people. Herman (Fall 1987).

325 - Poetry of Spain (3)
Prerequisites: Spanish 295, 296. Poetry from the 11th century to the contemporary period. Staff (Upon Demand).

351 - Drama of the Golden Age (3)
Prerequisites: Spanish 295, 296. Lope de Vega, Tirso de Molina, Calderon and other representative works. Quann (Upon Demand).

372 - Nineteenth Century Novel (3)
Prerequisites: Spanish 295, 296. Pardo Bazan, Alas, Perez Galdos and other representative authors. Quann (Fall 1987).

376 - Spanish American Literature: Modernism (3)
Prerequisites: Spanish 295, 296. Poetry and prose of "modernism", 1888 through the period of World War I. Staff (Fall 1986).

377 - Spanish American Post-Modernists Poetry (3)
Prerequisites: Spanish 295, 296. Gabriela Mistral, Pablo Neruda, Borges, Octavio Paz and other representative poets. Batchelder (Upon Demand).

381 - Twentieth Century Drama (3)
Prerequisites: Spanish 295, 296. Benavente, Garcia Lorca, Casona, Buero Vallejo and others. Pena (Spring 1987).

383 - Contemporary Spanish Prose (3)
Prerequisites: Spanish 295, 296. Emphasis on post-Civil War authors. Pena (Upon Demand).

385, 386 - Twentieth Century Spanish American Literature (3, 3)
Prerequisites: Spanish 295, 296. Novel, short story, drama, 1900 to present. Staff (Upon Demand).

391, 392 - Studies in Language II (3, 3)
Prerequisites: Spanish 291, 292. Advanced grammar, composition, conversation. Required of all majors. Pena. (Every Year).

451 - Intensive Study of Cervantes (3)
Prerequisites: Spanish 295, 296. Principal emphasis on Don Quijote. Required of majors. Pena (Spring 1988).

481 - Spanish Seminar (3)
Prerequisites: Spanish 295, 296. Selected topics from peninsular literature. Staff (Upon Demand).

482 - Spanish American Seminar (3)
Prerequisites: Spanish 295, 296. Selected topics. Batchelder (Spring 1988).

491, 492 - Individual Study (3, 3)
Intensive study of one or more authors selected by student in consultation with adviser. By permission of the Department. Staff.

499 - Internship
Supervised off-campus experience, developed in consultation with the Department. Credits variable. Staff.

Department of Music

Dr. James E. Baker, *Chairman*
Dr. Patricia P. Norwood, *Career Adviser*

Faculty

Professors:
James E. Baker
Bernard C. Lemoine

Associate Professors:
David J. Long
Patricia P. Norwood

Assistant Professors:
Stephen J. Burton
Martha V. Fickett

The Department of Music offers courses in music theory, music history and literature, and courses in musical performance for both the music major and for students whose primary interests are in other disciplines but for whom music is also a force in their lives.

The major program includes intensive study in both the academic and performance areas of music. Required courses in the music major are presented sequentially and are available to the non-music major if taken in sequence. It is possible for students to major in music and another discipline simultaneously.

As in all liberal arts programs, the emphasis is on broad coverage rather than specialization, altough specialization is possible through careful selection of elective courses, independent study projects and intern programs.

Students who are graduated as music majors by the college have the foundation for further study at the graduate level and can pursue careers in the performing arts or public school teaching. Yet, many work in non-musical professions for which they consider their musical studies valuable. Students can also consider the serious study of music as an intellectual pursuit for personal enrichment.

To support its academic and performance offerings the Department of Music houses a music listening and resource center, an electronic music laboratory, a class piano laboratory, and practice and rehearsal facilities. It also employs the use of computers and other electronic technology to assist students in music instruction.

The Department of Music as well as the College presents public musical performances throughout the academic year. Students and faculty appear in general recitals, senior and faculty recitals, and perform with the College-Community Symphony Orchestra, the MWC Chorus, the MWC Singers, the Fredericksburg Singers, the MWC Jazz Ensemble, the Old World Consort, and in various other vocal and/or instrumental settings. The Department and the College sponsor visiting performers and lecturers in recital, concert and master-class settings.

The Department of Music sponsors chapters of Mu Phi Epsilon, an international professional music fraternity, and the Music Educators National Conference (MENC).

Requirements for the Major

N.B. Students planning to major in Music should take Music Theory (MUTH) 181 and 285 in their first semester. Students should also audition for private study in instrument or voice and a musical ensemble in the performance area (MUPR).

In Major Subject: Music Theory (MUTH) 181, 281, 285, 286, 381, 382, 385, 386, 481, 490; Music History and Literature (MUHL) 275, 376, 377; plus 11 more credits in Music courses above the 100-level.

Note: Performance requirements may be included in the 11 credits required in addition to the courses in music theory and history and literature.

Additional Major Requirements: All music majors are required to study in their major performance area for a mimimum of 4 semesters. Majors must also participate for 4 semesters in a performing ensemble or performing assignment sponsored by the music department. All students who study privately are expected to demonstrate consistent progress beyond the ability level exhibited when they entered College. Progress is monitored by the music faculty jury examination of student performance. The music department expects that those who study privately will attend monthly Department recitals.

Course Offerings

Music History and Literature (MUHL)

155 - Introduction to Music (3)
The development of aural perception of music through examples of symphonic, choral, operatic, chamber, instrumental, vocal, and keyboard works presented historically. A foundational experience for the non-major. Staff (Each semester).

251 - Music in Concert (1)
An application of evaluative techniques and formal concert reporting using available live-performance experiences. May be repeated once for credit. Staff (Each semester). Writing intensive.

261 - Topics in Vocal Music (3)
One of the following approaches will be used to explore specific topics in the vocal idiom: a genre study within an era or over several eras, the works of a specific composer or composers within an era or over several eras, or an examination of works of a similar style and/or different styles within an era or over several eras. Specific topics are specified in the track book. Staff (Upon Demand).

262 - Topics in Instrumental Music (3)
One of the following approaches will be used to explore specific topics in the instrumental idiom: a genre study within an era or over several eras, the works of a specific composer or composers within an era or over several eras, or an examination of works of a similar style and/or different styles within an era or over several eras. Specific topics are specified in the track book. Staff (Upon Demand).

269 - History of Musical Instruments (3)
The evolution of musical instruments in Western culture, performance practices, literature and development of the orchestra. Baker (Upon Demand).

275 - The Great Composers (2)
An introduction to the style periods of music through selected composers from Machaut through Bartok with emphasis on their compositional environment. Staff (Spring semester).

367 - Twentieth Century Music (3)
Twentieth-century practices in musical composition and their relationship to the historical developments in music of our time. Fickett. (Spring semester).

368 - History of Jazz (3)
The development of jazz, ragtime, blues, dixieland, boogie-woogie, and later styles which evolved from jazz. Long (Each semester).

370 - Introduction to Electronic Music (3)
Emphasis on historical developments, current status, physical concepts, language and compositional techniques as they apply to synthesized music. Project required. Long (Spring semester).

376 - Music through Beethoven (3)
Prerequisite: MUHL 275 or equivalent. A study in music history culminating in analysis of specific significant compositions. Research techniques are formulated. Norwood (Spring semester).

377 - Music from Beethoven (3)
Prerequisite: MUHL 275 or equivalent. A study in music history culminating in analysis of specific significant compostions. Research techniques are formulated. Norwood (Spring semester). Writing intensive.

491, 492 - Individual Study (1-3)
Individual study is under the direction of a Music Department faculty member. Details may be obtained from the chairperson. A project is required. By permission of the Department.

499 - Internship (1-3)
Supervised off-campus experiences, developed in consultation with the Department of Music, the Off-Campus Agency, and the College's Internship Committee. By permission of the Internship Committee.

Music Theory (MUTH)

181 - Introduction to Music Theory (3)
Basic music theory explained. Modes, scales, clefs, intervals, notation, acoustics conceptually presented with musical examples. Long (Fall semester).

281 - Pre-Baroque Music Theory (3)
Prerequisite: MUTH 181 or equivalent. Principles of counterpoint, 16th century polyphony, evolution of triads and emphasis on the motet and early chorale writing. Long (Spring semester).

285 - Skill Development I (1)
Development and application of monophonic aural and written skills. Includes sight-singing, dictation and keyboard experiences. A companion course to MUTH 181, and must be taken by music majors with that course. Staff (Fall semester).

286 - Skill Development II (1)
Prerequisite: MUTH 285. Development and application of two and three-part aural and written skills. Includes sight-singing, dictation and keyboard experiences. A companion course to MUTH 281, and must be taken by music majors with that course. Staff (Spring semester).

369 - Orchestration (3)
Prerequisite or corequisite: MUTH 382. The techniques of instrumental scoring considered historically and creatively. Long (Fall 1986, 1988).

381 - Baroque Music Theory (3)
Prerequisite: MUTH 281. Explores major-minor tonality, figured bass, 7th chords, cadence formulae, modulations and progressions as exemplified in period pieces. Lemoine (Fall semester).

382 - Classical Music Theory (3)
Prerequisite: MUTH 381. Harmonic syntax and structure of the Post-Baroque era is covered. Includes altered chords, disintegration of tonality and advanced chromatism. Lemoine (Spring semester).

385 - Skill Development III (1)
Prerequisite: MUTH 286. Development and application of three and four-part aural and written skills. Includes sight-singing, dictation and keyboard experiences. A companion course to MUTH 381, and must be taken by music majors with that course. Staff (Fall semester).

386 - Skill Development IV (1)
Prerequisite: MUTH 385. A continuing development and application of aural and written skills. Includes sight-singing and dictation. Keyboard experiences are emphasized. A companion course to MUTH 382, and must be taken by music majors with that course. Staff (Spring semester).

481 - Contemporary Music Theory (3)
Prerequisite: MUTH 382. The harmonic concepts of Hindemith, Schoenberg and other 20th-century composers are explored, including 12-tone techniques. Lemoine (Fall semester).

483 - Music Composition (3)
Prerequisite or corequisite: MUTH 481. A study of compositional techniques focusing on selected style periods, featuring both large and small models. A creative project is required. Long (Fall 1987, 1989).

490 - Music History-Theory Seminar (2)
Prerequisite or corequisite: MUTH 481, MUHL 377. Analysis from an historical and theoretical perspective. Team-taught. Long, Norwood (Spring semester).

Music Performance (MUPR)

Studio Lessons

Advanced performers are offered individual lessons regardless of major discipline based upon a placement audition. The music department expects students auditioning for private study to demonstrate technical facility, rhythmic precision, acceptable tone quality, accurate intonation, and the ability to read at sight.

A maximum of 12 credits in individual instruction is allowed toward the degree. However, all credits beyond this will be credited over and above the 122 minimum hours required for graduation. Students are cautioned to balance their total program before exceeding the stated limit.

300-level courses constitute one half-hour lesson per week for one credit. 400-level courses constitute one hour lessons or two half-hour lessons per week for two credits, which also implies twice the preparation. Admission to 400-level courses is by permission of the chairperson of the music department.

301, 401 - Voice

305, 405 - Piano

309, 409 - Harp

310, 410 - Organ

311, 411 - Flute

312, 412 - Oboe

313, 413 - Clarinet

314, 414 - Bassoon

315, 415 - Saxophone

321, 421 - French Horn

322, 422 - Trumpet

323, 423 - Trombone/Baritone

324, 424 - Tuba

325, 425 - Percussion

331, 431 - Violin

332, 432 - Viola

333, 433 - Cello

334, 434 - Contrabass

335, 435 - Guitar

Private Instruction is with either members of the full-time music faculty or with adjunct instructors who are active in teaching and performing.

201, 202 - Class Voice I, II (1, 1)
Class instruction through the intermediate performance level. Emphasis on the fundamentals of vocal technique through performance. An audition is required for placement. Collier 201 (Fall semester); 202 (Spring semester).

203, 204 - Class Voice III, IV (1, 1)
Class instruction for students with demonstrated ability in the vocal idiom. Emphasis on English and Italian diction (Class Voice III), and French and German diction (Class Voice IV). May be taken by students concurrently enrolled in private voice. Recommended for music majors seeking teaching certification in the vocal/choral area. Collier 203 (Fall semester) 204 (Spring semester).

205, 206, 207, 208 - Class Piano I, II, III, IV (1, 1, 1, 1)
Class instruction for beginners through the intermediate level. 205 and 206 deal with fundamental performance techniques. The ability to read music is anticipated. 207 and 208 emphasize musical expression. An audition is required for placement. Haas 205, 207 (Fall semester); 205, 206, 208 (Spring semester).

211, 212 - Class Woodwind Instruments (1, 1)
Beginning group study in performance techniques of woodwind instruments. The ability to read music is anticipated. Recommended for music majors seeking teaching certification in the instrumental area and for students interested in composition. Students having taken 211 and enrolled in 212 must study another instrument. Baker (Spring semester).

221, 222 - Class Brasswind Instruments (1, 1)
Beginning group study in performance techniques of brasswind instruments. The ability to read music is anticipated. Recommended for music majors seeking teaching certification in the instrumental area and for students interested in composition. Students having taken 221 and enrolled in 222 must study another instrument. Baker (Spring semester).

255 - Class Percussion (1)
Beginning group study in peformance techniques of percussion instruments. Recommended for music majors seeking teaching certification in the instrumental area and for students interested in composition. Long (Each semester).

231, 232 - Class String Instruments (1, 1)
Beginning group study in performance techniques of string instruments. The ability to read music is anticipated. Recommended for music majors seeking teaching certification in the instrumental area and for students interested in composition. Students having taken 231 and enrolled in 232 must study another instrument. Baker (Fall semester).

236, 237 - Class Guitar (1, 1)
Beginning group study in performance techniques of the guitar. 236 and 237 designate beginning and intermediate levels. Staff (Upon Demand).

341 - Chorus (01) MWC Chorus (1)
Students have an opportunity to study and perform selected repertoire representative of all periods of music. (01) designates treble voices. Open by Audition. Burton (Each semester).

**341 - Chorus (02) Fredericksburg Singers (1)*
Students have an opportunity to study and perform selected repertoire representative of all periods of music. (02) designates mixed voices. Open by Audition. Burton (Each semester).

**342 - Orchestra (1)*
Students have an opportunity to study and perform selected repertoire representative of the literature written for orchestra. Open by Audition. Baker (Each semester).

344 - Jazz Ensemble (1)
Instrumental performance experience for students with an interest in small group participation and in full jazz band ensemble. Open by audition. Long (Each semester).

(*) designates a co-operative venture with local community musicians.

A maxium of 10 credits in performing ensemble is allowed toward the degree. However, all credits beyond this will be credited over and above the 122 minimum hours required for graduation. Students are cautioned to balance their total program before exceeding the stated limit.

The Music Department offers a number of performance experiences in both vocal, instrumental and keyboard music that are not for credit. These experiences, some on a regular basis and other occasionally, range from trio to larger settings. Music of the great composers, popular music, music before 1600, and experimental music are explored.

347 - Choral Conducting (2)
Prerequisite or corequisite: MUTH 381, 385. The principles and techniques of instrumental conducting, including score reading, score analysis and program planning. Burton (Fall semester).

348 - Instrumental Conducting (2)
Prerequisite or corequisite: MUTH 381, 385. The principles and techniques of instrumental conducting, including score reading, score analysis and program planning. Baker (Spring semester).

Music Education (MUED)

Music majors seeking teaching certification should see course descriptions for EDUC 317, 318 found under the Department of Education. 317 (Fall semester), Baker 318 (Spring semester, Burton).

359 - Music for the Elementary Classroom Teacher (3)
The objectives and processes of teaching music in the elementary schools with emphasis on music reading, conceptual learning and teacher competencies. For the non-music major. Burton (Fall semester), Baker (Summer semester).

468 - Choral Music for the Church (1)
A comprehensive survey of selected choral offerings for the church. Participants sing and discuss choral techniques. Burton (Upon Demand).

469 - Choral Music for the School (1)
A comprehensive survey of selected choral offerings for school use. Participants sing and discuss choral techniques. Burton (Upon Demand).

470 - The Orchestra and the School (2)
Deals with the problem of maintaining an instrumental ensemble within the school. Includes topics of interest to instrumental music teachers. Baker (Upon Demand).

Music Education (MUED) 468, 469, 470 are available to undergraduate students as an elective experience beyond the 122 credit hours required for the B.A. degree. Their chief purpose is to enrich the professional backgrounds of teachers in service.

Music Majors seeking teaching certification should obtain a complete outline of requirements for the "Instrumental" and the "Vocal/Choral" certification areas from the Department of Music. A certification manual for music majors is available from the Music Department Chairperson.

Performing Arts
See Department of Dramatic Arts and Dance.

Philosophy
See Department of Classics, Philosophy, and Religion.

Physical Education
See Department of Health and Physical Education.

Physics
See Department of Chemistry, Geology and Physics.

Department of Political Science and International Affairs

John M. Kramer, *Chairperson*
Richard J. Krickus, *Career Adviser - Political Science*
John M. Kramer, *Career Adviser - International Affairs*

Faculty

Professors:
Lewis P. Fickett
John M. Kramer
Richard J. Krickus

Associate Professor:
Victor A. Fingerhut

Instructor:
Mark J. Rozell

The Department offers majors in Political Science and International Affairs. The two majors are closely related in that each is an important component of the other's discipline. However, each major is also a separate and distinct entity that exhibits its own methodology, disciplinary perspective, and body of knowledge.

Political Science

Political Science, basically the study of how various political systems work, offers courses ranging from urban politics and government to international politics. The Department also provides many outlets through which students can gain practical knowledge of the field, including visits to the Virginia State capital and to Washington, D.C., internships in governmental offices, and involvement in major political events, such as the United Nation's student conference. Political Science is a good background for a career in law, urban planning, teaching, government and private enterprise; it also lends itself to further study in graduate school.

Requirements for the Major

In Major Subjects: Political Science 301, 302; 6 credits from among: Political Science 321, 441, 442. 9 credits from among: Political Science 201, 202, 332, 356.

Additional Major Requirements: 9 credits in Political Science beyond Political Science 101, 102, not to include classes used as required courses.

Course Offerings

101 - Introduction to Political Science I (3)
Survey of the basic concepts and theories of political science from antiquity to the present, including contemporary analytical techniques. Staff (Fall semester).

102 - Introduction to Political Science II (3)
Continuation of Political Science 101, with primary emphasis on modern comparative political analysis and international relations. Staff (Spring semester).

201 - American Government (3)
Principles of Political Science as applied to American national government, state government, and local government. Fickett (Fall semester).

202 - American Government (3)
A study of selected problems in contemporary American Politics. Fickett (Spring semester).

211 - Congress and the Political Process (3)
Analysis of the contemporary role of Congress in its relation to the Presidency, the federal bureaucracy, and pressure groups. Staff (Upon Demand).

212 - The American Presidency (3)
Analysis of the modern Presidency and its relationship to democratic theory. Staff (Upon Demand).

301 - Comparative Government I (3)
Comparative analysis of the governments of the United Kingdom, France, and West Germany. Fickett (Fall semester).

302 - Comparative Government II (3)
Comparative analysis of the governments of the Soviet Union and Eastern Europe. Kramer (Spring semester).

304 - Contemporary American Politics (3)
In-depth analysis of selected problems in contemporary American politics. Krickus (Upon Demand).

321 - Theory of International Politics (3)
Analysis of contemporary theory of international politics, including evaluation of the United Nations and other international organizations. Fickett (Fall semester).

322 - Problems in International Politics (3)
Analysis in depth of major contemporary problems in international politics.

332 - Metropolitan Problems (3)
Analytical study of the problems of American cities and other areas. Krickus (Spring semester).

334 - Political Parties (3)
Structure and functions of political parties; conduct of elections; pressure groups. Fingerhut (Upon Demand).

341 - Government Finance (3)
An analysis of the appropriate role of government in the allocation of resources. Staff (Upon Demand).

350 - Political Modernization (3)
Conceptual approach to the problem of political modernization. Staff (Upon Demand).

354 - Politics of South and Southeast Asia (3)
Study of the political development of India, Pakistan, Thailand, Laos, Cambodia, and Vietnam. Fickett (Spring semester).

355 - Politics of North Africa and the Middle East (3)
Study of the political development of the nations of North Africa and the Middle East. Fickett (Spring semester).

356 - American Foreign Policy (3)
Problems facing the United States in its search for national security and international stability. Staff (Fall semester).

357 - Soviet Foreign Policy (3)
Analysis of the foreign policy of the Soviet Union, including its conflict with China. Kramer (Fall 1987).

360 - The Theory and Practice of Revolution (3)
Comparative analysis of the writings of major theorists of revolution from various parts of the world. Kramer (Upon Demand).

361 - Problems of Communism (3)
Study of the origins, development, and contemporary aspects of world communism. Fingerhut (Fall semester).

362 - Political Geography (3)
Study of geographic factors in world power and international affairs. Staff (Upon Demand).

365 - Foreign Policy of the People's Republic of China (3)
A survey of the foreign policy of the People's Republic of China from 1949 to the

present. Topics examined include China's role in fomenting revolutions, Sino-American relations, and the split between the U.S.S.R. and the People's Republic. Kramer (Upon Demand).

422 - American Civil Liberties (3)
Intensive analysis of civil liberties in the United States, based primarily upon decisions of the Supreme Court. Fickett (Spring semester).

441 - History of Political Thought I (3)
Examination of the contributions of the greal political theorists from Plato to Burke. Fingerhut (Fall semester).

442 - History of Political Thought II (3)
Examination of the contributions of modern political philosophies. Fingerhut (Spring semester).

443 - Modern Political Analysis (3)
Study of the theories and application of modern political analysis. Staff (Upon Demand).

471 - Political Science Seminar (3)
Emphasis on intensive reading with group discussions of the selections read. Staff (Upon Demand).

491 - Individual Study in Political Science (3)
Directed individual research on approved problems in political science. Staff (Each semester).

499 - Internship
Supervised off-campus experience, developed in consultation with the Department. No credit can count towards the major. Staff (Each semester).

International Affairs

The interdisciplinary major in International Affairs is designed to provide the student with a broad knowledge of the contemporary international system as well as with specific expertise in a given geographic area and/or academic discipline. To this end, the major combines core courses that examine international affairs from a variety of disciplinary perspectives with related courses that permit students to pursue in-depth their particular geographic and/or disciplinary interests.

Career opportunities for the major in International Affairs range from such traditional areas as work with government or private agencies engaged in research on foreign policy or intelligence issues to such new and rapidly expanding areas as employment with multinational corporations or international banking institutions.

Requirements for the Major

Subjects in the Major:
Political Science 321, 322, 356. Economics 392 or 401. History 372. Geography 321.

Additional Major Requirements:
21 credits to be chosen by student and advisor from the following disciplines: Economics, French, Geography, German, History, Italian, Russian, Political Science, Spanish.

Language Requirements:
Option A - at least 6 credits in each of 2 languages at the intermediate level. Option B - at least 6 credits in 1 language at the advanced level.

Course Offerings

471 - International Affairs Seminar (3)
Staff (Upon Demand).

491 - Individual Study in International Affairs (3)
Staff (Each semester).

499 - Internship
Up to 6 credits can be applied to fulfillment of major requirements. Staff (Each semester).

Department of Psychology

J. Christopher Bill, *Chairperson*
Thomas Moeller, *Career Adviser*
Roy Smith, *Internship Adviser*

Faculty

Professors:
B. David MacEwen
Roy H. Smith
Roy B. Weinstock

Associate Professors:
J. Christopher Bill
Thomas G. Moeller
Denis Nissim-Sabat
William R. Pope

Assistant Professors:
Carole J. Corcoran
Steve R. Hampton
Debra C. Steckler

The principle objective of the Department of Psychology is to provide sound course work in the field of psychology, the study of behavior. This coverage includes both traditional areas and those that represent more recent trends and theoretical developments in the discipline.

In addition to being exposed to the major topic areas in psychology, students also receive extensive training in methodology and statistics. The study of psychology at the College provides an excellent means for developing general intellectual skills such as critical thinking and written and oral communications skills. It is important to note, however, that the psychology major is essentially a liberal arts training rather than professional training, and, as such, will not make a graduating psychology major a "psychologist."

The department's facilities in Chandler Hall include a microcomputer laboratory; an animal laboratory complete with colony, surgery, and research computer; a mechanical shop that supports research projects; a suite of rooms suitable for conducting experiments with human subjects; facilities and materials for use in psychological testing; video taping equipment; and terminal access to the College's PRIME computer network.

The Department offers both B.S. and B.A. degrees in psychology. The curricula for the two degrees are essentially the same, except that students seeking the B.S. degree do a year-long research project under the direction of an individual faculty member. Such student research is typically done within the context of one of the several research teams that are usually active in the Department. The B.S. degree training is designed primarily for students who plan on doing graduate work in the social sciences. The B.A. degree training is designed primarily for students who are not planning on advanced training in psychology. All students are exposed to the variety of subject areas that define the field of psychology, and all students are given the opportunity for hands-on, empirical work in the discipline.

The Department offers a number of internships with local service agencies. Students are also given the option to develop their own internships under the direc-

tion of departmental faculty members.

Career options available to majors include: teaching at the primary and secondary level (with appropriate certification), social work, probation and parole, substance abuse counseling, and technical or counseling opportunities in a variety of mental health settings. Students interested in pursuing psychology as a professional career find the B.S. curriculum to be an excellent preparation for graduate study.

Academically outstanding students may earn honors by: (1) attaining an overall GPA of 3.0 and a GPA of 3.25 in psychology courses, after having completed 106 credit hours of work, and (2) successfully completing an Honors Project in psychology.

There is a chapter of Psi Chi, the national honorary society in psychology, in the Department. Membership is limited to academically successful psychology majors who meet the national academic criteria.

Each year the Department awards several Minnie Rob Phaup Memorial Scholarships to junior and senior psychology majors. The value and the number of these awards varies from year to year.

Each year the Department presents a graduating senior with the *Outstanding Senior Psychological Major Award*. This award, established by the local Psi Chi chapter in 1981, is given on the basis of a variety of academic and professional criteria.

Requirements for the Major

B.A. Degree: Required for Major: 36 credits in Psychology courses, including 101, 102, 261, 361 or 362, 421, 470, and at least one course from each of the following groupings: (1) 320, 331, 332, 333, 335; (2) 301, 311, 315, 342; (3) 307, 353, 380, 385, 392, 394; (4) 372, 373, 374, 381.

B.S. Degree: Required for Major: 36 credits in Psychology courses, including 101, 102, 261, 361, or 362, 421, 491 (4 credits) and at least one course from each of the following groupings: (1) 320, 331, 332, 333, 335; (2) 301, 311, 315, 342; (3) 307, 353, 380, 385, 392, 394; (4) 372, 373, 374, 381.

Course Offerings

Psychology 101 and 109 *must be taken in sequence* and are prerequisites for all 200, 300, and 400 level Psychology courses.

101, 102 - General Psychology (3, 3)
Fundamental principles of human behavior; biological antecedents; motivation; perception; learning; individual differences, life-span; personality; intelligence; social; abnormal; clinical. Only in sequence. Staff (Each semester).

261 - Statistics and Research Methods (4)
An introduction to the use of descriptive and inferential statistical methods in the analysis of empirically generated data. Laboratory experience with data collection, analysis, and report writing. Bill, MacEwen (Each semester).

301 - Social Psychology (3)
Individual behavior in a social context; socialization; attitudes; social perception; attribution; and small groups. Corcoran (Fall semester).

307 - Computer Applications in the Social Sciences (3)
Prerequisite: Psychology 361 or 362. BASIC programming; statistical packages and applications; simulation; general use of microcomputer as a research tool. Bill (Spring semester).

311 - Abnormal Psychology (3)
Examination of major varieties of pathological behavior, explanatory models, and modes of treatment. Nissim-Sabat (Spring semester).

315 - Foundations of Clinical Psychology (3)
Theories and practices of major schools of psychotherapy; psychoanalysis, client-centered, family systems, behavior modification, and community psychology. Nissim-Sabat (Fall semester).

320 - Psychology of Exceptional Children and Youth (3)
The study of deviations in physical, intellectual, and emotional development through adolescence. Consideration of relevant theories, issues, empirical findings, and methods of prevention and treatment. Moeller (Upon Demand).

321 - Practicum in Exceptional Child Psychology (1)
Prerequisite or corequisite: Psychology 320. Supervised experience working with exceptional children in local schools and agencies. Moeller (Upon Demand).

331 - Developmental Psychology - The Infant and Child (3)
Development from conception through childhood. Consideration of developmental processes, theories, issues, and relevant research. Moeller, Steckler (Each semester).

332 - Developmental Psychology: The Adolescent and Adult (3)
Theories of, and research on, personality, social, physical, and intellectual characteristics from adolescence through middle adulthood. Steckler, Moeller (Each semester).

333 - Psychology of Aging (3)
Theories and research in aging, changes in personality, intellectual abilities, cognitive capacities, and physical capabilities from late adulthood to death. Steckler (Upon Demand).

335 - Applied Child Psychology (3)
Prerequisite: either Psychology 320 or Psychology 331. An examination of assessment and therapy techniques as applied to child-clients in schools and clinical settings. Moeller (Upon Demand).

342 - Psychology of Personality (3)
Personality structure, dynamics, development, and methods of research. Staff (Fall semester).

353 - Fundamentals of Learning and Motivation (3)
A survey of empirical findings and theoretical issues in the analysis of learning and motivation and their interaction in the determination of behavior. Hampton (Spring semester).

361 - Inferential Statistics and Research Methods (4)
Prerequisite: Psychology 261. In-depth coverage of data analysis techniques and inferential tests. Includes data collection, report writing, and instruction in computerized data analysis (SPSS). Bill, MacEwen (Upon Demand).

362 - Applied Methods (4)
Prerequisite: Psychology 261. An overview of methods common to applied psychological settings. Topics include: sampling, direct and indirect measurement techniques, survey construction and use, and analysis and presentation of data. Corcoran (Upon Demand).

372 - Experimental Psychology: Sensation & Perception (4)
Prerequisite: Psychology 361 or 362. A laboratory approach to the study of visual and auditory sensory and perceptual psychology, with an emphasis on psychophysical methods. Bill (Upon Demand).

373 - Cognitive Psychology (4)
Prerequisite: Psychology 361 or 362. An examination of methodology, research, and theory in the study of human memory, language, and thinking. Hampton (Upon Demand).

374 - Experimental Psychology: Physiological Psychology (4)
Prerequisite: Psychology 361 or 362. Critical survey of physiological correlates of psychological events with an emphasis on the neurophysiological bases of behavior and the methods of psychobiological investigation. Hampton (Upon Demand).

380 - Psychological Tests and Measurements (4)
Prerequisite: Psychology 361 or 362. Theory of test construction and the interpretation and uses of tests. Test administration and techniques and data analysis. Nissim-Sabat (Fall semester).

381 - Applied Behavioral Analysis (4)
Prerequisite: Psychology 361 or 362. Study and experience with the principles of operant conditioning as applied to the modification of human and animal behavior. MacEwen (Fall semester).

385 - Industrial-Organizational Psychology (3)
Prerequisite: Either Psychology 261 or Math 200. An application of psychological principles and research to human problems in industry, business, and government. Topics include: personnel selection and placement, job and work environments, worker motivation, job satisfaction, and the organizational and social context of human work. Corcoran (Spring semester).

392 - Behavior Genetics (3)
Prerequisite: One year of biology. Principles of genetic transmission, gene action, population structure, and evolutionary theory applied to problems in animal and human behavior. Smith (Upon Demand).

394 - Psychopharmacology (3)
Prerequisites: One year of biology or one year of chemistry. Introduction to principles of drug action in the body, drug effects on behavior, and the social psychology of drug use. Smith (Upon Demand).

421 - History of Psychology (3)
Survey of historical antecedents of modern psychology. Hampton (Each semester).

470 - Selected Topics in Psychology (3)
A study of enduring and/or contemporary issues in psychology. Different topics offered during different semesters. Course may be repeated with different topics. Staff (Each semester).

491 - Individual Research (variable; maximum of 3/semester)
Prerequisite: permission of departmental staff member. Empirical investigation and/or library research. Staff (Each semester).

499 - Internship (1-6, maximum of 3 credits towards major)
Prerequisites: sixty hours of junior standing. Twelve hours in psychology beyond Psychology 101 and 102. Specific courses may be required for specific internships. Supervised off-campus experience. Staff (Each semester).

Religion
See Department of Classics, Philosophy, and Religion.

Russian
See Department of Modern Foreign Languages.

Department of Sociology and Anthropology

Margaret Huber, *Chairman*
Charles A. Sletten, *Career Adviser - Sociology*
William B. Hanson, *Career Adviser - Sociology*
Margaret Huber, *Career Adviser - Anthropology*

Faculty

Professor:
Charles A. Sletten

Associate Professors:
Margaret Huber
Joan T. Olson

Assistant Professors:
Timothy A. Crippen
William B. Hanson

Sociology and anthropology study the variety of human societies and social forms, and offer theories concerning their origins and development. Sociology tends to concentrate on modern societies of European origin, while anthropology concentrates on non-Western societies, and studies in addition the physical and cultural origins of humanity.

Sociology

The major program in sociology provides a strong grounding in the study of the development of sociological theory and methods of research, as well as in substantive areas dealing with important aspects of social life in the contemporary world. The substantive area courses focus on the study of the structure and dynamics of social life and relationships and on timely contemporary issues in such areas as the family, sex roles, religion, criminology, occupations and professions, juvenile health, and population studies. Special readings and individual study and research offer students the possibility of working with faculty guidance in an area of special interest. Supervised internships are available in community agencies and organizations.

As a body of reliable knowledge based on the scientific investigation of human social interaction, sociology can provide students with insights into the nature of culture, social structure and social dynamics which are relevant to personal and intellectual development and social awareness. This program of study is designed to provide sociology majors with the necessary foundation for a variety of career goals and graduate work in sociology. In addition, it is aimed toward preparing majors as well as non-majors for government employment, elementary and secondary teaching, social services, research with public and private agencies including private industry and the allied health professions.

Requirements for the Major

In Major Subject: 101, 102, and Anthropology 101; 24 credits in Sociology courses at the 300 and 400 level. Up to 6 hours in Anthropology above the 100 level may be substituted for Sociology courses.

Additional Major Requirements: 6 credits in approved selected courses in anthropology, psychology, history, political science, economics, linguistics, philosophy, statistics and computer science.

Recommended: Majors are encouraged to work closely with their departmental adviser to develop an integrated, balanced program of study.

Course Offerings

101 - Principles of Sociology (3)
Examination of basic social characteristics of group life including such concepts as status, role, social structure, social dynamics, power, culture and the interaction between persons and groups. Staff (Every fall).

102 - Social Problems (3)
Social problems resulting from deviant behavior, social disorganization, group

conflicts and processes of social change. Staff (Every fall).

303 - Individual and Society (3)
Prerequisite: Sociology 101 and 102 or permission of the instructor. Impact of culture, social structure, groups and social interaction on individual perspectives and behavior.

304 - Social Stratification (3)
Prerequisite: Sociology 101 or 102 or permission of the instructor. Analysis of inequality in society. Nature and consequences of social stratification and power in modern society. Hanson (Every spring).

311 - Demography and Human Ecology (3)
Prerequisite: Sociology 101 or 102 or permission of the instructor. Basic principles of social and formal demography. Relationship of social economic and psychological factors on demographic processes. Staff (Upon Demand).

313 - Urban Sociology (3)
Prerequisite: Sociology 101 or 102 or permission of the instructor. Common problems of city living, ecological factors in growth of cities and their influence upon social organization and everyday social relationships. Hanson (Every fall).

314 - Population Trends (3)
Prerequisite: Sociology 101 or 102 or permission of the instructor. Considers the nature of global and national demographic trends and their sociological correlates. Special emphasis is given to topics such as economic development, migration patterns, and resource utilization. Crippen (Fall 1987).

315 - Sex Roles and Society (3)
Prerequisite: Sociology 101 or 102 or permission of the instructor. Sociological study of gender differentiation in American society, with an emphasis on major social institutions and social change. Olson (Fall 1986).

331 - The Family (3)
Prerequisite: Sociology 101 or 102 or permission of the instructor. American families: changing patterns in marriage, divorce, and childrearing; social class and ethnic variation; and emerging alternative life-styles. Olson (Every spring).

332, 333 - Introduction to Social Welfare (3.3)
Prerequisite: Sociology 101 or 102 or permission of the instructor. Social welfare concerns, historical background, philosophies, values, goals, and issues; social welfare as a social institution; social work as a profession; fields, methods, policies, and consequences of social action or inaction. Staff (Upon Demand).

334 - Medical Sociology (3)
Prerequisite: Sociology 101 or 102 or permission of the instructor. The relationship of disease and health to social structure and culture. Organizational and role analysis of the medical care industry, various allied health professions and alternative approaches to coping with health and illness. Hanson (Every spring).

341 - American Society (3)
Prerequisite: Sociology 101 or 102 or permission of the instructor. Survey of contemporary society; modifications of the liberal progressive ideology and organization; changing male and female roles; growth of bureaucracy; work and leisure. Sletten (Spring 1987).

342 - Occupations and Social Structure (3)
Prerequisite: Sociology 101 or 102 or permission of the instructor. Treatment of major occupational groups; special emphasis on professions and executive roles, including relationships with other aspects of society. Sletten (Spring 1988).

351 - Juvenile Delinquency (3)
Prerequisite: Sociology 101 or 102 or permission of the instructor. Sociological

analysis of the nature, extent, causes, impact and treatment of juvenile delinquency. Sletten (Every fall).

352 - Criminology (3)
Prerequisite: Sociology 101 or 102 or permission of the instructor. Causal theories and descriptive research on adult crime; survey of the American criminal justice system. Olson (Every fall).

362 - Methods of Social Research (3)
Prerequisite: Sociology 101 or 102 or permission of the instructor. Study design, observation, interviewing, questionnaire construction and administration, survey research and analysis, and other topics are treated in the course. Sletten (Every fall).

363 - Sociological Research: Data Analysis (3)
Prerequisite: Sociology 101 or 102 or permission of the instructor. Analysis of sample survey data with special emphasis on cross-classification, correlation, and regression techniques. Crippen (Fall, 1986).

402 - Sociology of Human Development (3)
Prerequisite: Sociology 101 or 102 or permission of the instructor. Examination of social influences on human development, including family, schools, mass media and social stratification. Olson (Fall, 1987).

421 - Ethnic and Racial Minority Relations (3)
Prerequisite: Sociology 101 or 102 or permission of the instructor. Analysis of the relationship between ethnic and racial groups in America. The focus is on people of color in the U.S. and their relationship to the dominant white majority. Concepts such as prejudice, discrimination, segregation, inter-group conflict, power and assimilation are discussed. Hanson (Every fall).

422 - Sociology of Religion (3)
Prerequisite: Sociology 101 or 102 or permission of the instructor. Sociological approaches to religious behavior are considered in terms of the social correlates of religiosity and of the significance of religion in socio-historical development. Crippen (Every fall).

431 - Sociology of the Aging (3)
Prerequisite: Sociology 101 or 102 or permission of the instructor. Theories of aging, societal attitudes; other factors: demographic, status change, family relationships, and institutionalization of aged persons. Balsanek (Spring, 1987).

432 - Political Sociology (3)
Prerequisite: Sociology 101 or 102 or permission of the instructor. Theories and research regarding the social structure and cultural bases of political authority in human societies are considered. Emphasis is given to the polity, power, and political action as integral aspects of socio-cultural organization and dynamics. Crippen (Every spring).

442 - Social Change (3)
Prerequisite: Sociology 101 or 102 or permission of the instructor. Considers alternative approaches to the study of evolution and revolution in various spheres of human social activity including politics, economics, religion, and ideology. Crippen (Every spring).

471 - History of Social Theory (3)
Prerequisite: Sociology 101 or 102 or permission of the instructor. Presentation and analysis of major forms and themes of social and early sociological theory from Greece to the 20th century. Sletten (Every fall).

472 - Contemporary Sociological Theories (3)
Prerequisite: Sociology 101 or 102 or permission of the instructor. Major sociologi-

cal theorists of the 20th century including Durkheim, Weber, Pareto, Mannheim, Sorokin, and Parsons are discussed. Sletten (Every spring).

488 - General Readings (3)
Prerequisite: Sociology 101 or 102 or permission of the instructor. Usually one set of readings on some major concepts or points of view in contemporary sociology with an emphasis on discussion. Staff (Upon Demand).

489 - Special Readings (3)
Prerequisite: Sociology 101 or 102 or permission of the instructor. One or several sets of readings and discussions from a sociological point of view. Student interest is important in selection of the topics. Sletten (Every spring).

491, 492 - Individual Study and Research (3, 3)
Prerequisite: Sociology 101 or 102 or permission of the instructor. Available to qualified students; reading and research; project or paper with guidance of a faculty member. Staff (Upon Demand).

499 - Internship
Prerequisite: Sociology 101 or 102 or permission of the instructor. Supervised off-campus experience, developed in consultation with departmental faculty. Credits variable; none may be included in the major.

Anthropology

Anthropology studies humanity biologically and culturally, considering the relationship between man and nature, and the varieties of human culture and society, past and present. The courses in anthropology approach these questions from the perspectives of physical anthropology, archaeology, ethnology, and linguistics. In addition the courses are intended to give the student an appreciation of the diversity of human cultural achievement.

A background in anthropology is suitable for a number of careers such as museum work, journalism, advertising and market research, personnel management, contract archaeology, and third-world development; as well as for graduate work in anthropology or related fields. Interested students may arrange a special degree with an anthropological emphasis, incorporating courses from a number of disciplines such as history, historic preservation, geography, sociology, religion, philosophy, biology, and linguistics.

Anthropology 101 is prerequisite for all other courses except 102 and 201; except by permission of the instructor.

101 - Introduction to Cultural and Social Anthropology (3)
Introduces the student to non-Western cultures, and examines fundamentals such as ritual, myth, exchange, production, law, kinship, and marriage within those cultures. Huber (Every fall).

102 - Introduction to Physical Anthropology and Archaeology (3)
Physical: primatology, genetics, human evolution, and human varieties. Archaeology: objectives and techniques; the course of cultural evolution from Palaeolithic period. Huber (Every spring).

201 - Ethnography of North American Indians (3)
Various Indian cultures from the Arctic, Sub-Arctic, Northwest Coast, Southwest, Plains, and Eastern North America; Meso-American cultures and influences; related theoretical problems. Huber (Fall, 1987).

202 - Ethnography of South Pacific Peoples (3)
Prerequisite: Anthropology 101 or permission of the instructor. Societies and cultures from the South Pacific, including Melanesia and New Guinea, Micronesia, and Polynesia; subsistence, social organization, ritural and symbolism, modern development. Huber (Spring, 1988).

301 - History of Culture Theory (3)
Prerequisite: Anthropology 101 or permission of the instructor. Examination of theories of culture from the beginnings of anthropological thought until the present. Huber (Fall, 1987).

312 - Women in Anthropology (3)
Prerequisite: Anthropology 101 or permission of the instructor. The anthropological approach to sex roles: women as participants in culture; cultural characterizations of the female; the "male bias" in anthropology and its consequences. Huber (Spring, 1987).

322 - Symbolic Anthropology (3)
Prerequisite: Anthropology 101 or permission of the instructor. The interpretation of cultural symbols as found in rituals, myths, and everyday life, in both Western and non-Western cultures. Huber (Fall, 1986).

401, 402 - Special Topics in Anthropology (3, 3)
Prerequisite: Anthropology 101; intermediate anthropology courses strongly recommended. Seminar style course; one relatively specialized topic with comprehensive readings, choice determined by both student and instructor interests. Staff (Upon Demand).

491, 492 - Individual Study and Research (3, 3)
Individual work under the guidance of the instructor. By permission of the instructor. Huber (Upon Demand).

499 - Internship
Supervised off-campus experience, developed in consultation with the instructor. Credits variable; up to 6 may be counted in a special major. Huber (Upon Demand).

Spanish
See Department of Modern Foreign Languages.

Speech
See Department of English, Linguistics, and Speech.

SPECIAL PROGRAMS

Special Majors

The student and the faculty adviser work out an individual program by using, from two or more departments, courses that define a field of concentration. This major must be approved by the Committee on Special Programs during the final semester of the student's sophomore year. Examples of Special Majors include general liberal arts and science programs in Medieval Studies, Linguistics, Classical and General Archaeology, Ethnology, Italian Studies, Asian Studies, Latin-American Studies, Russian Studies and Urban Affairs.

Academic Internships

The College offers a program of academic internships in which qualified juniors and seniors work in off-campus settings. Cooperating academic departments supervise the interns and award academic credit for the learning experience.

The College's location near the nation's capital provides unique opportunities for placement in the governmental and political arenas. Students have performed special projects for the Northeast/Midwest Congressional Coalition, the Women's League for Peace and Freedom, and syndicated political columnists Evans and Novak. The City of Fredericksburg offers fine opportunities for students particularly interested in studio art, in history and historic preservation, and in local gov-

ernment. In other fields, students have worked in various positions throughout the region, one as an interpretative naturalist at Prince William National Forest Park, another as a laboratory assistant at the Institute of Human Performance. One student interested in print journalism has written feature articles for the "Potomac News"; another more interested in the broadcast industry has interned as a story researcher for the "PM Magazine" TV show. Several students have worked as cartographers with the U.S. Geological Survey. Others have learned about accounting, marketing, banking, or personnel in a variety of private commercial businesses.

A survey of recent graduates indicated that 55% of them believed their internship had been important in securing their first position.

Study Abroad

The procedure for earning credits at colleges and universities abroad is basically the same as that for earning credits at other institutions in the United States, except that earlier planning is necessary.

With the help of faculty advisers and the Office of Academic Services, interested students can investigate the wide range of available programs. Most students spend the year abroad with a program sponsored by an American institution, although a few apply directly to the foreign school. All courses must be approved in advance for transfer credit. Courses to be counted in the major program must also be approved by the student's major adviser, who helps the student structure a program in relation to the major at Mary Washington.

Health Sciences

The Health Sciences constitute a variety of paramedical professions that provide health care. The basic liberal arts and science courses offered at Mary Washington prepare the student for entrance into nursing, physical therapy, dental hygiene, and pharmacy.

During their freshman year at Mary Washington students must give careful attention to the admissions requirements of professional schools. A career adviser is available to help students select courses that meet these requirements and prepare them for the professional qualification examinations in their field. Admission to professional institutions is, of course, very competitive and depends on academic performance, personal interview, and scores on qualifying examinations.

Premedical, Predental, and Preveterinary

Students considering a medical career may concentrate their studies in any major field. Medical, dental, and veterinary schools accept students who have made a commitment to a major field and have demonstrated superior achievement within it as well as in their overall academic programs. Most of the premedical, predental, and preveterinary students at the College select a major in one of the sciences, usually biology or chemistry. If, however, a student chooses to major in the humanities or social sciences, he or she must take the basic courses in biology, chemistry, and physics as electives. Since admission to medical, dental or veterinary school is highly selective, it is important for a student to choose a major that can lead to an alternate career should his or her application be unsuccessful. A major program in biology, chemistry, or other science will provide opportunities for a career in medically related fields such as biochemistry, clinical chemistry, medical technology, pharmacology, medicinal chemistry, biomedical engineering, and forensic science.

The Premedical Advisory Board at the College assists each student by collecting biographical data and faculty recommendations; through counseling for the Medical College Admissions Test (MCAT) and Dental Admissions Test (DAT); and by preparing an integrated, institutional recommendation for the student to be sent to

medical and dental schools. The institutional recommendation is based on the student's record, faculty recommendations, and the Board's estimate of the student gained through an interview.

Pre-Law

This program provides guidelines for students interested in entering law school. While there is no standard pre-law curriculum at the College, the pre-law Adviser assists students in selecting courses that meet their individual needs and provide the foundation for acquiring skills necessary to the legal profession. Students are encouraged to enroll in courses that develop written and oral communication as well as the reasoning process.

Teacher Certification

Both the Virginia State Department of Education and the National Association of State Directors of Teacher Education and Certification have approved the teaching education programs at Mary Washington College. Students who complete an approved program qualify for certification in all the states with which Virginia has a reciprocity agreement. See also the departmental offerings, Department of Education.

RECOGNITION OF STUDENT ACHIEVEMENT

Academic Distinction

The college recognizes the academic attainment of graduating seniors through the awards of Cum Laude, Magna Cum Laude, and Summa Cum Laude, based solely on the student's academic average at Mary Washington College. The cumulative grade-point average to be attained for each award is as follows: Cum Laude, 3.25; Magna Cum Laude, 3.50; Summa Cum Laude, 3.75. A student may receive both departmental honors and one of the Latin academic distinction designations.

To graduate Cum Laude, Magna Cum Laude, or Summa Cum Laude, a student must earn at least 60 credits on which quality points can be computed.

Phi Beta Kappa

Outstanding students may be elected to Phi Beta Kappa in the junior or senior year. Selection is made by the members of the Mary Washington College Chapter of Phi Beta Kappa.

Departmental Honors

Students may earn honors in their major subjects. Each department establishes its own requirements for honors projects or theses. During their junior year, interested students should consult with the chairperson of the major department for details. All departments require that a student intending to undertake an honors project have a specified minimum grade-point average in the major subject and a minimum grade-point average for all work taken at Mary Washington College.

Departments will notify the Office of Student Records of recipients of departmental honors by the last day of classes in the spring semester. If a paper, research project, or a piece of creative writing is the direct result of the honors project, the student must deposit a copy of this written work in the library by the last day of examinations in the spring semester.

Final Honors

At Commencement, final honors are awarded to students who achieve a 3.75 grade-point averge in their last 56 credits earned at Mary Washington College, at least 44 of which must be graded credits.

Colgate W. Darden, Jr. Award

Established in 1960, this award honors Colgate W. Darden, Jr., President of the University of Virginia from 1947 to 1959. It consists of a medal designed by Gaetano Cecere, formerly of the Department of Art, and a cash sum. It is awarded to the senior having the highest cumulative grade-point average.

To be eligible for the Darden Award, a student must have earned at least 94 credits on which quality points can be computed.

Mary Washington College Alumni Award

Annually, at the Senior Convocation, the Alumni Association presents this award to the member of the graduating class who has shown distinction in academic achievement and outstanding service to the College.

The Dean's List

At the close of a semester's grading period, a student who has completed at least 12 credits of new course work and who attains a grade-point average of 3.50 or better on that work, earns a place on the Dean's List of Honor Students for that

semester. Decisions on the Dean's List reflect a student's record as it stands at the official close of the semester grading period. Thus, grades that have been delayed or are incomplete prevent consideration for the Dean's List.

Intermediate Honors

Intermediate Honors are awarded to students who achieve a 3.75 grade-point average in their first 56 credits earned at Mary Washington College, at least 44 of which must be graded credits.

Biology Research Grants

By the gift of an anonymous donor, stipends are available to support research of students majoring in Biology or Environmental Earth Sciences. Information about this research grant program may be obtained from the Chairman of the Department of Biological Sciences, which is located in Combs Science Hall.

Lt. General Albert J. Bowley Scholarship Fund

This scholarship was established by Mrs. Elsie Ball Bowley in memory of her husband, Lt. General Albert J. Bowley, a distinguished officer of the United States Army. The recipient is to devote to the James Monroe Memorial Library as much time and service as the authorities of Mary Washington College prescribe. Consideration is first given to juniors and seniors who are daughters of service personnel, and then to students from foreign countries (preferably Latin American) or to upper-classmen whose major interests and work lie in the fields of history of political science. Inquiries should be addressed to the Academic Dean.

Chi Beta Phi Scholarships

This national, scientific, honorary fraternity awards annual scholarships to outstanding students majoring in science or mathematics. Preference is given to members of Chi Beta Phi.

Ann Elizabeth Collins Memorial Art Award

Established in memory of Ann Elizabeth Collins ('73) by friends, relatives, and faculty, this award is given annually to the student who has the greatest potential for pen and ink drawings and graphics. The recipient, selected by members of the Department of Art, receives the award at the Student Art Show or other appropriate event.

Oscar Theodore Schultz, III, Award in Mathematics

This award, established in the spring of 1984, commemorates Oscar Schultz, a master of the art, as well as the science, of mathematical analysis. Selected by a committee of the mathematics faculty, the recipients are junior or senior mathematics majors who have demonstrated desire and potential to master the art of mathematics. Through them, the ideals of Oscar Schultz live on.

Lester D. Crow Scholarship for Student Teachers

This scholarship, established by Lester D. Crow, a former faculty member at Mary Washington College, is awarded twice annually to students enrolled in Education 440, Supervised Teaching. The recipients are selected by the faculty of the Department of Education from applicants who have demonstrated scholarship and an aptitude for teaching. Preference is given to students with demonstrated financial need.

Ann Elizabeth Fitschen Memorial Political Science Award

Established by gifts from family, friends, and classmates of Ann Elizabeth Fitschen ('75), a cash award is made annually to the senior majoring in political science with the highest academic average, as determined by the faculty of the Department of Political Science and International Affairs. An additional sum is presented annually to the Department, on behalf of the recipient, to be spent at the discretion of the Department's chairperson.

Barbara Diane Hall Foundation

Established by Mrs. Dorothy N. Bonnet in memory of her granddaughter, the scholarship is to be awarded annually to a fine arts major attending MWC.

Anne and Sidney Hamer Music Award

This annual award is presented each spring semester to the Bachelor of Arts music major who has earned the highest overall grade-point average during his or her three and one-half or more years of study at MWC.

Henry W. Hewetson Award

This annual award is presented to a student who has demonstrated superior academic achievement in economics. The recipient is selected by the faculty of the Department of Economics.

Jeannine Mary Pfeifle Scholarship

In memory of Jeannine Mary Pfeifle, class of 1979, this $500 scholarship is awarded each year by a College selection committee to a rising senior who is a U.S. citizen. Specifically, and in descending order or priority, the recipient must be a daughter of a U.S. Marine serviceman, daughter of a U.S. Navy serviceman, son of a U.S. Marine serviceman, or son of a U.S. Navy serviceman.

Minnie Rob Phaup Memorial Scholarship

Established in memory of Minnie Rob Phaup, former member of the Mary Washington College faculty, this scholarship is awarded to outstanding psychology majors in either the junior or senior year at Mary Washington College.

Outstanding Local Senior Award

This award, sponsored by the Fredericksburg Chapter of the Mary Washington College Alumni Association, is presented to the senior from the Fredericksburg area who has the highest academic average.

Grellet C. Simpson Undergraduate Travel/Study Scholarship

Established by the Alumni in 1974, this scholarship was endowed by President Emeritus Simpson in appreciation for alumni support during his tenure at the College. Awarded annually to a junior or senior who anticipates graduation from Mary Washington College, the stipend is $3,500 per scholarship.

Annie Fleming Smith Scholarship Fund

This scholarship was established by Mrs. Elsie Ball Bowley in memory of Mrs. Annie Fleming Smith, whose efforts made possible the preservation of Kenmore, the home of George Washington's sister. The recipient must devote to the Kenmore Association as much time and service as the authorities of Mary Washington College prescribe. In awarding this scholarship, primary consideration is given to

students from the Northern Neck of Virginia, consisting of the counties of King George, Westmoreland, Richmond, Lancaster, and Northumberland. Inquiries should be addressed to the Academic Dean of the College.

Aurelia B. Walford Scholarships in Music

Established by the will of the late Aurelia B. Walford, these scholarships are awarded annually to music majors on the basis of academic merit and performance skills.

J. Binford Walford Scholarships in Architecture

Established by the will of the late Aurelia B. Walford, these scholarships are awarded annually to majors in art history, historic preservation, or history who have stated career goals in architecture-related endeavors.

Ruby York Weinbrecht Award

This annual cash award is presented to the outstanding senior library aide as selected by the library's staff.

RECOGNITION OF FACULTY ACHIEVEMENT

Grellet C. Simpson Award

This award, made possible by an anonymous donor, is presented each year at graduation to a faculty member in recognition of excellence in undergraduate teaching.

Previous recipients of this award are as follows:

1972 *Carmen L. Rivera* (Professor of Modern Foreign Languages)

1973 *Sidney H. Mitchell* (Professor of English)

1974 *Anna S. Hoye* (Professor of Biology)

1975 *Earl G. Insley* (Professor of Chemistry)

1976 *Donald E. Glover* (Professor of English)

1977 *Glen R. Thomas* (Professor of American Studies)

1978 *Nancy H. Mitchell* (Professor of English)

1979 *Elizabeth A. Clark* (Professor of Religion)

1980 *Janet G. Zeleznock* (Associate Professor of Mathematical Sciences)

1981 *Arthur L. Tracy* (Associate Professor of History)

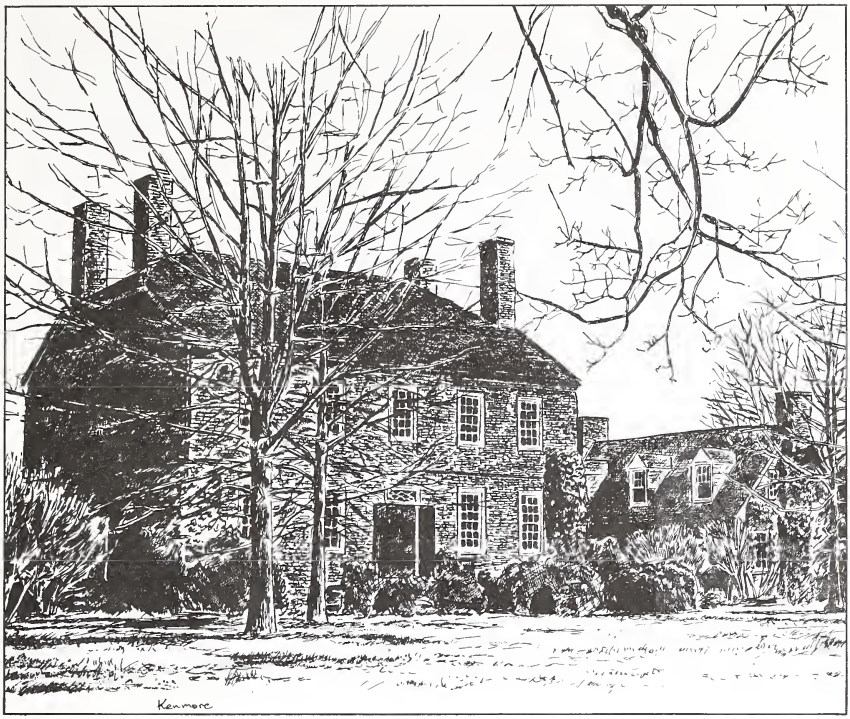
1982 *Mary W. Pinschmidt* (Professor of Biological Science)

1983 *Joseph C. DiBella* (Associate Professor of Art)

1984 *Bernard L. Mahoney, Jr.* (Professor of Chemistry)

1985 *Susan J. Hanna* (Professor of English)

1986 *George M. Van Sant* (Professor of Philosophy)



THE GRADUATE PROGRAM

Mary Washinton College currently offers two graduate-degree programs, a Master of Arts in Liberal Studies and a Master of Business Administration. The Masters programs are designed for part-time commuting students who wish to complete a degree while working and for students who wish to complete a degree for vocational or avocational interests. Non-degree-seeking students are admitted on a space-available basis. If they choose to apply for admission as degree candidates, they must do so before completing 6 hours as special students.

Master of Arts in Liberal Studies

The Master of Arts in Liberal Studies (MALS) is a structured yet flexible interdisciplinary graduate program in the liberal arts. It is primarily a terminal degree for adults wanting to round out their education. Public school teachers also find it a challenging way to do graduate work closely related to the range of subjects they themselves teach.

In the required course *Ideas and Movements of the Western World*, and in specially designed collquia, students investigate complex problems, both historical and contemporary, under the leadership of professors from several disciplines.

In its range of elective courses the program allows some specialization. In the creative or investigative project toward the end of the program, it allows students to pursue any worthwhile project appropriate to the faculty, library, and laboratory resources of the College.

The MALS is aimed particularly at mature students. Since the College assumes that most students will have obligations to job and family, classes are generally held in the evenings.

Degree Specifics

The MALS requires 30 graduate credit hours distributed in four categories: initial courses; colloquia; electives; and individual study. All students take *Ideas and Movements of the Western World*, a two-semester team-taught survey of major trends in thought, the arts, history, and social theory from the Ancient World to the present. Students must also take any two of the several colloquia in the program's offerings. These are multi-disciplinary explorations of problems too complex for any single discipline to handle successfully. Each colloquium is taught by a faculty team of two or three and involves material from the humanities, the social sciences, and the sciences. Fifteen semester hours fill the elective requirement. These may be chosen from a range of graduate courses in the various disciplines, or they may focus on a single area. Three semester hours of directed study complete the program. Students must maintain a 3.0 semester average in the courses used to fulfill the degree requirements.

Admission and Transfer Credit

Any student holding a Bachelor's degree from an accredited institution, with a B average earned in the last two years of work, may apply. A student with a lower average may apply for conditional status. After completing the initial courses (MALS 511 and 512) with a B average, the conditional student may become a candidate for the degree.

All candidates for admission are interviewed by the director of the program.

Students with appropriate graduate credit elsewhere may transfer up to six hours to count as electives in the MALS. Students with credit in a graduate liberal studies program having parallel requirements may transfer an additional six hours of appropriate credit. All transfer hours must be approved by the director of the program.

Course of Study

The initial courses are taught in fall-spring sequence. Others are offered on a rotating basis.

Initial Courses

MALS 511, 512 - Ideas and Movements in the Western World I, II (3, 3)
These initial courses provide a sustained inquiry into the evolution of Western thought. A broad view of the assumptions, ideas and movements that made Western civilization, the courses will introduce students to forces that have shaped western values and traditions. The sessions are interdisciplinary and explore major human achievements in a chronological perspective.

Colloquia

MALS 520 - Aging in Modern America (3)
Prerequisite: MALS 511, 512 or comparable interdisciplinary experience. An investigation of aging in America from the viewpoints of the scientist, the social scientist, and the humanist. The course will ask how old age can be defined, what we know and understand about the process of aging, and where the aged belong in the family and society.

MALS 522 - On Becoming Human (3)
Prerequisite: MALS 511, 512 or comparable interdisciplinary experience. Designed to study becoming human as a process that is biological, social, and individual. Using the viewpoints of psychology, anthropology, and biology, students trace this fascinating process through cultural, scientific, and literary materials.

MALS 523 - Beauty, Truth and Reality: The Aesthetics of Science (3)
Prerequisite: MALS 511, 512 or comparable interdisciplinary experience. Physicists and mathematicians speak of the "poetry" of their equations. Biologists speak

of the "beauty of natural phenomena." Chemists, the most practical of all, pretend to laugh at the others while recognizing that the order of nature has an intelligent stability and fascination that is beyond scientific explanation. Is this seemingly untestable dimension an aesthetic one? Can it be tested and what has been its role in the evolution of science? The fourteen class sessions present a critical analysis of these questions.

MALS 524 - From Speaking Act to Natural Word: Communication, Language and Meaning (3)
Prerequisite: MALS 511, 512 or comparable interdisciplinary experience. An examination of the nature of both communication and language, drawing on biology, linguistics, literature, music, and psychology. Through lecture, discussion, and reports, students address the questions of the physiological basis for language, the psychological uses of language, and the structure and function of language as a self-referenced system for representing reality.

Electives

MALS 500 - Issues and Movements in Curriculum (3)
What are American schools teaching children and why? What influences have religion, government, business, minorities, and movements for student and teacher rights had on the curricula of American schools? These and other topics will be under discussion.

MALS 553 - Historical Themes and Problems in Early Modern Europe (3)
This course examines major historical themes and historiographical controversies from the period 1559-1789 in European history. Topics: the debate on social class in Tudor and Stuart England, "The Becker Thesis," and continuity and change in The Enlightenment. The course involves lecture, seminar discussion, and written essays.

MALS 554 - Leonardo: The Renaissance Man (3)
Focus on the remarkable scope of Leonardo da Vinci's intellectual and artistic achievement. Using slide-illustrated lectures, discussion, and readings, the course examines Leonardo's interests in botany, anatomy, physics, mechanics, optics, cartography, music, sculpture, painting, and architecture.

MALS 555 - Literary Criticism and the Creative Imagination (3)
An exploration of the theory and practice of literature as a crafted creation through reading major critics and applying their views to literary works by Sophocles, Shakespeare, Keats, and others. Students learn how to develop their own theory and then apply it.

MALS 556 - Contemporary Dynamics in World Politics (3))
An in-depth study of the volatile and evolving contemporary international systems, forces, and challenges generated by major participants in world politics, including the United States, Soviet Union, People's Republic of China, and Third World countries.

MALS 557 - English Prose Style: History, Principles, Practice (3)
Designed to develop an appreciation for and greater competence in English "plain style." The course will investigate past practice, study current issues, and provide for individual writing.

MALS 558 - Marine Ecology (1)
Prerequisite: Biology 121-122, one year of college chemistry, invertebrate zoology, one course in college ecology or equivalent. An introduction to biological, chemical, and physical aspects of various marine ecosystems. Field collecting and trips. Summer only. Location: Christchurch School.

MALS 560 - The Character of Physical Law (3)
Prerequisite: at least one college physical science course. A non-mathematical survey of important developments in physical science for the layman. Topics: origins and nature of science, classical physics, science and technology, relativistic revolution, quantum revolution, physical cosmology, birth and death of stars, the origin of life, epistemology.

MALS 563 - Dante's Divine Comedy (3)
Prerequisite: MALS 511, 512. A study of the *Divine Comedy* (in translation) as a literary landmark and historical document, emphasizing medieval structure and innovative realism.

MALS 564 - Comparative Theories of Mind: Influential Thinkers in Education (3)
A study of four major conceptions of mind in education: education as rational thinking, as mental development, as communication, as self-actualization. Focus on how these theories are translated into practice.

MALS 565 - U.S. National Security: Policies and Processes (3)
An evaluation of domestic and international factors bearing on the design and implementation of U.S. national security policies. Topics: strategic doctrine, key policy makers and institutions, projected national security problems and prospects.

MALS 566 - Contemporary Politics in the United States and the Soviet Union: A Comparison (3)
Comparative study of political life in the U.S. and U.S.S.R. Topics: political socialization, response to problems of crime, drug abuse, environmental pollution, urban and energy crises.

MALS 567 - Sexuality and Feminism in Nineteenth Century Literature (3)
An exploration of the concept of sympathetic love in 19th century English poetry and prose. Under discussion are questions concerning the effect of the theory of sympathy on the creation of an androgynous sexual ideal and its effect on both feminist polemic and the creative literature of the period.

MALS 568 - Virgil and Milton (3)
Prerequisite: MALS 511, 512 or comparable interdisciplinary experience. The course teaches students how to read two of the greatest poems in Western culture. It also illustrates the fact that for great writers literature is a system of inspirational conventions which transcend the minutiae of local times, native languages, and trivial originality. Each class meeting will have a lecture, a discussion period, and an oral reading from Homer.

MALS 569 - Contemporary Problems of the Third World (3)
The course explores in depth the historical, economic, and political factors which give rise to the Nationalist Revolution; examines in the Middle East and South Asia the major political and economic problems common to Third World Nations; considers the impact of the Third World on world politics.

MALS 590 - Individual Project (3)
Prerequisite: 21 hours of MALS course work. Creative or Investigative Project proposed by student and directed by Graduate Faculty member.

Master of Business Administration

The Master of Business Administration (MBA) offers a program for the liberal arts graduate. Both the design and the content of the MBA degree are planned to open the doors of business to those with degrees in liberal arts disciplines.

The MBA program does not require any preparation in business administration. Students do not have to satisfy prerequisites in undergraduate business courses before they can enter the program. In a complete 48-hour package, students earn the degree from start to finish on the graduate level.

In content, the MBA courses, while shaped to teach the fundamental skills and theories of management, accounting, marketing, and finance, have been broadened to include the relationships between business and the world at large. Both the students and faculty bring to the MBA program their contacts with the liberal arts traditions, relating the specific interests of the world of business to the wider world of the social sciences, the natural sciences, the humanities, and the arts. Moreover, students may take six semester hours in fields they choose from selected alternatives.

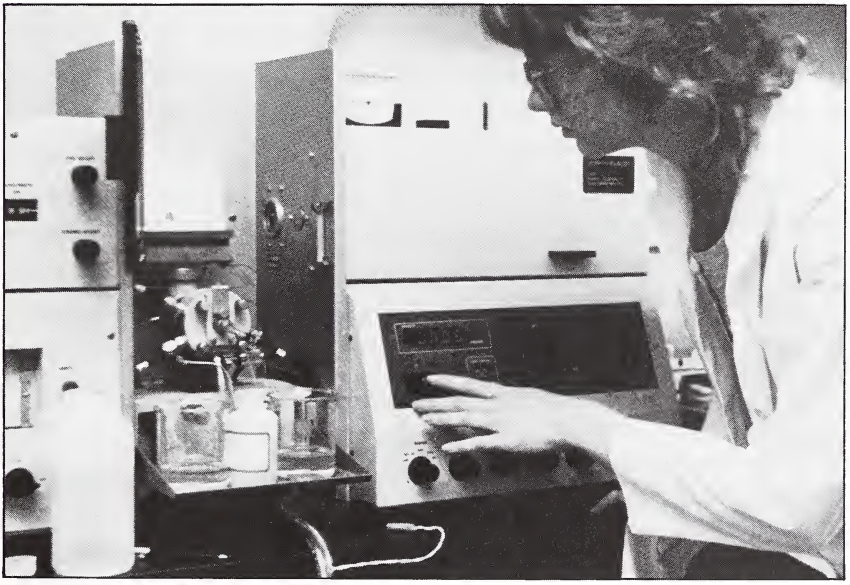
Planned particularly for the part-time student, this program enriches a solid, professional core with a perspective extending beyond the business world.

Degree Specifics

The Master of Business Administration is a 48 hour program consisting of two twenty-four semester hour levels. The First Level of 24 hours may be waived on evidence of comparable preparation. Waiver of any First Level course will depend primarily on previous comparable graduate level work or suitable undergraduate work completed in the past five years with a minimum grade of B. Thus, a student might enter the program, waive the First Level (24 hours) and be required to take only the Second Level courses. A waiver from the Program Director must be obtained prior to or during the first semester after admission.

Approval of First Level equivalence or completion of First Level courses with a grade point average of 3.0 or higher automatically raises a student to candidacy status. Degree-seeking candidates must complete all Second Level courses at Mary Washington College with a grade point average of 3.0 or better. Second Level courses are as follows:

MBAS 511 - Accounting for Administrative Control (3)
MBAS 512 - Managerial Economics II (3)
MBAS 513 - Financial Policy (3)
MBAS 514 - Organizational Theory and Analysis (3)
MBAS 515 - Quantitative Techniques for Managers (3)
MBAS 516 - Business Policy Seminar (3)
Electives - Six semester hours with approval of adviser (6)



Admission

To apply, a student must hold a Bachelor's degree granted by an accredited institution within the last 10 years; and at that institution, the student must have achieved a B average. Candidates who graduated without a 3.0 grade-point average more than 10 years ago can be admitted on conditional status. They may take only one course in their first semester. Students are admitted on the basis of their academic record, their score on the Graduate Management Admission Test (GMAT), and two letters of recommendation. To be considered for admission, a student must score greater than 1050 using the following formula: GPA times 200 plus the GMAT score. The TOEFL test is required of applicants for whom English is a second language. Completed applications, including transcripts and supporting documents, should be on file by August 1 for fall, December 1 for spring, and April 1 for summer. Applications received after these dates will be considered for later admission. Admission will be announced by the 15th day after closing.

Course of Study

First Level

MBAS 501 - Financial Accounting (3)
An intensive study of accounting principles, offered at the graduate level for those with no previous background in accounting. Covers the collection, reporting, and interpreting of the financial data of a modern business using a management-oriented approach.

MBAS 502 - Managerial Economics I (3)
An intensive summary of basic micro- and macroeconomic theories as applied to business.

MBAS 503 - Administrative Theory (3)
A study of individual and small group behavior in organizations and the interpretation of this behavior in the context of the managerial environment. Examines such concepts as influence, power and control, attitudes, communication, conflict, and interpersonal relations to provide understanding of dynamics of group behavior. A strong conceptual and theoretical emphasis is involved.

MBAS 504 - Marketing Management (3)
Considers the essential role of the marketing function in the modern business organization. Employs a series of business cases which raise issues of concern to the chief marketing executive. Major subject areas: organization, planning, marketing research, sales promotion, distribution channels, and control.

MBAS 505 - Managerial Statistics (3)
Emphasis is on the application of classical and Bayesian statistical methods to business decision making. Topics include: non-parametric techniques, analysis of variance, decision theory, and multivariate regression and forecasting models.

MBAS 506 - Corporate Finance (3)
A study of selected aspects of corporation finance. Subject areas include funds statements, financial analysis and forecasting, debt and equity choices, government regulation, and capital budgeting.

MBAS 507 - Management Information System (3)
Principles and procedures used in the development of information systems to facilitate the management functions of planning, integrating, measuring, and controlling.

MBAS 508 - Law, Business, and Society (3)
Legal principles underlying the American judicial system; legal forms of business contractual rights, and government regulations.

Second Level
(Prerequisite: Completion of First Level with 3.0 or equivalent.)

MBAS 511 - Accounting for Administrative Control (3)
Prerequisite: MBAS 501 - Financial Accounting or equivalent. Cost concepts and behavior, performance measurement, and analytical uses of accounting data for administrative decisions.

MBAS 512 - Managerial Economics II (3)
Prerequisite: MBAS 502 - Managerial Economics I or equivalent. Application of the tools of economic analysis to the problems of business enterprises. Case studies are included to develop the student's ability to apply theoretical concepts in decisions involving costs, prices, and resource allocations.

MBAS 513 - Financial Policy (3)
Prerequisites: MBAS 501 - Financial Accounting and MBAS 502 - Managerial Economics I, or equivalent. Case study approach to financial policy and strategy, solvency, profitability, external financing, dividend policy, acquisitions, mergers, and reorganizations.

MBAS 514 - Organization Theory and Analysis (3)
Prerequisite: MBAS 503 - Administrative Theory or equivalent. Behavioral problems associated with innovation, resistance to change, and the development of complex organizations and administrative processes.

MBAS 515 - Quantitative Techniques for Managers (3)
Prerequisite: MBAS 505 - Managerial Statistics. Mathematical-statistical techniques in management, replacement models, Markov chain, inventory and production models, simulation, queuing, linear programming, transportation, network analysis.

MBAS 516 - Business Policy Seminar (3)
Prerequisite: Final semester or permission of instructor. Broadly integrative course designed to develop facility in analyzing business problems and to provide framework for making decisions, formulating policies, and implementing plans for action. Cases concerning administrative management, taken from actual business situations, present problems involving the integration of department policies into administrative decisions. Oral and written reports are required.

Electives:
(6) Intensive studies of current trends and topics within each discipline.

MBAS 571 - Seminar: Accounting (3)

MBAS 572 - Seminar: Management (3)

MBAS 573 - Seminar: Marketing (3)

MBAS 574 - Seminar: Managerial Economics (3)

Application Procedures

Application forms are available from the Office of Graduate and Extended Programs, George Washington Hall, Mary Washington College, Fredericksburg, Virginia 22401.

Graduate Fees:

Application fee (one-time, non-refundable)	$25
Credit hour fees:	
Virginia residents	$62 per credit hour
Non-Virginia residents	$118 per credit hour
Yearly registration fee (non-degree-seeking students only)	$20
Graduation fee	$25

DIRECTORY

The Corporation

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John A. Kinniburgh ..... *McLean*
Miriam Knight ('48) ..... *Lewisburg, W.Va.*
Edith Sheppard Ott ('59) ..... *Richmond*
J. Rupert Picott ..... *Washington, D.C*
Kathleen Mayer Rugh ('78) ..... *Washington, D.C.*
Rita Morgan Stone ..... *Alexandria*
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Clerk, Board of Visitors

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Shirley B. Truslow ..... *Mail Room Supervisor*

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Advising, Director of Internship Programs

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Nancy H. Smith, R.N. ..... *Head Nurse*

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Senior Fellowship, Rosenwald Fellowship
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University of Nebraska, VA Museum of Fine Arts
Springfield Mass. Museum, New Britain, Conn.
Musuem, Oberlin College, Phillips Collection, Washington, D.C.
Pentagon WWII display and others

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**The first date indicates the year when the present rank was attained, the second date the year when the individual was first appointed to the staff.*

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CALENDAR

Mary Washington College 1986-88

Summer Session*

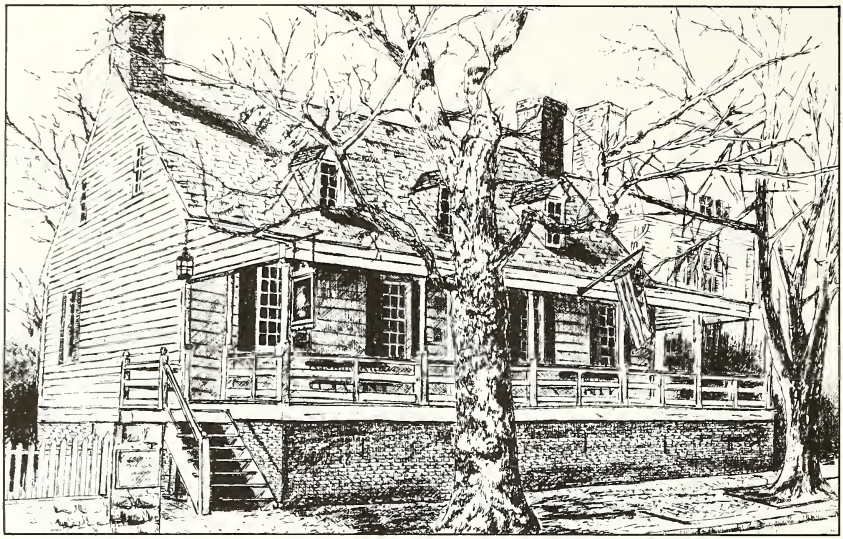
First Five-Week Term (May/June)	*1986*	*1987*
Registration	Sun., May 18	Sun., May 17
Classes Begin	Mon., May 19	Mon., May 18
Classes End	Tues., June 17	Tues., June 16
Reading Day	Wed., June 18	Wed., June 17
Examinations	Thurs., June 19	Thurs., June 18
Second Five-Week Term (June/July)		
Registration	Sun., June 22	Sun., June 21
Classes Begin	Mon., June 23	Mon., June 22
Classes End	Tues., July 22	Tues., July 21
Reading Day	Wed., July 23	Wed., July 22
Examinations	Thurs., July 24	Thurs., July 23

*1987 Summer Session Calendar contingent upon approval by faculty.

Regular Session

First Semester	*1986*	*1987*
Residence halls open 9:00 a.m. for new students	Thurs., Aug. 21	Thurs., Aug. 20
Residence halls open 1:00-5:00 p.m. for returning students travelling long distances	Sat., Aug. 23	Sat., Aug. 22
Residence halls open 9:00 a.m. for returning students	Sun., Aug. 24	Sun., Aug. 23
Classes begin; late registration	Mon., Aug. 25	Mon., Aug. 24
Drop/Add begins	Tues., Aug. 26	Tues., Aug. 25
Last day to add courses	Mon., Sept. 1	Mon., Aug. 31
Last day to change to or from pass/fail	Mon., Sept, 8	Mon., Sept. 7
Last day to drop courses without penalty	Mon., Sept. 15	Mon., Sept. 14
Family Weekend	Fri.-Sat., Sept. 19-20	Fri.-Sat., Sept. 18-19
Mid-semester progress reports due	Mon., Oct. 13	Mon., Oct. 12
Mid-semester vacation begins 5:00 p.m. Residence halls close 7:00 p.m.	Fri., Oct. 17	Fri., Oct. 16
Residence halls open 1:00 p.m.	Tues., Oct. 21	Tues., Oct. 20
No course withdrawals permitted after this date (6 wks.)	Wed., Oct. 22	Wed., Oct. 21
Registration for the second semester	Nov. 10-21	Nov. 9-20

Thanksgiving holiday begins 12:05 p.m. Residence halls close 2:00 p.m.	Wed., Nov. 26	Wed., Nov. 25
Residence halls open 1:00 p.m.	Sun., Nov. 30	Sun., Nov., 29
Thanksgiving holiday ends 8:00 a.m.	Mon., Dec. 1	Mon., Nov. 30
Last day of classes	Thurs., Dec. 4	Thurs., Dec. 3
Reading Days	Fri.-Sat., Dec. 5-6	Fri.-Sat., Dec. 4-5
Examinations	Mon.-Fri., Dec. 8-12	Mon.-Fri., Dec. 7-11
Residence halls close 9:00 p.m.	Fri., Dec. 12	Fri., Dec. 11
Grades due in Office of Student Records by 10:00 a.m.	Wed., Dec. 17	Wed., Dec. 16
Second Semester	*1987*	*1988*
Residence halls open 9:00 a.m. for returning and new students	Sun., Jan. 11	Sun., Jan. 10
Classes begin; late registration	Mon., Jan. 12	Mon., Jan. 11
Drop / Add begins	Tues., Jan. 13	Tues., Jan. 12
Last day to add courses	Mon., Jan. 19	Mon., Jan. 18
Last day to change to or from pass / fail	Mon., Jan. 26	Mon., Jan. 25
Last day to drop courses without penalty	Mon., Feb. 2	Mon., Feb. 1
Mid-semester progress reports due	Mon., Mar. 2	Mon., Feb. 29
Spring vacation begins 5:00 p.m. Residence halls close 7:00 p.m.	Fri., Mar. 6	Fri., Mar. 4
Residence halls open 1:00 p.m.	Sun., Mar. 15	Sun., Mar. 13
Spring vacation ends 8:00 a.m.	Mon., Mar. 16	Mon., Mar. 14
No course withdrawals permitted after this date	Mon., Mar. 16	Mon., Mar. 14
Registration for the first semester of following year	Apr. 6-17	Apr. 4-15
Last day of classes	Thurs., Apr. 23	Thurs., Apr. 21
Reading Days	Fri.-Sat., Apr. 24-25	Fri.-Sat., Apr. 22-23
Examinations	Mon.-Fri., Apr. 27-May 1	Mon.-Fri., Apr. 25-29
Residence halls close at 9:00 p.m. for students who are not candidates for graduation	Fri., May 1	Fri., Apr. 29
Senior grades due in Office of Student Records by 12:00 noon	Mon., May 4	Mon., May 2
All grades due in Office of Student Records by 4:00 p.m.	Wed., May 6	Wed., May 4
Graduation. Residence halls close 5:00 p.m.	Sat., May 9	Sat., May 7

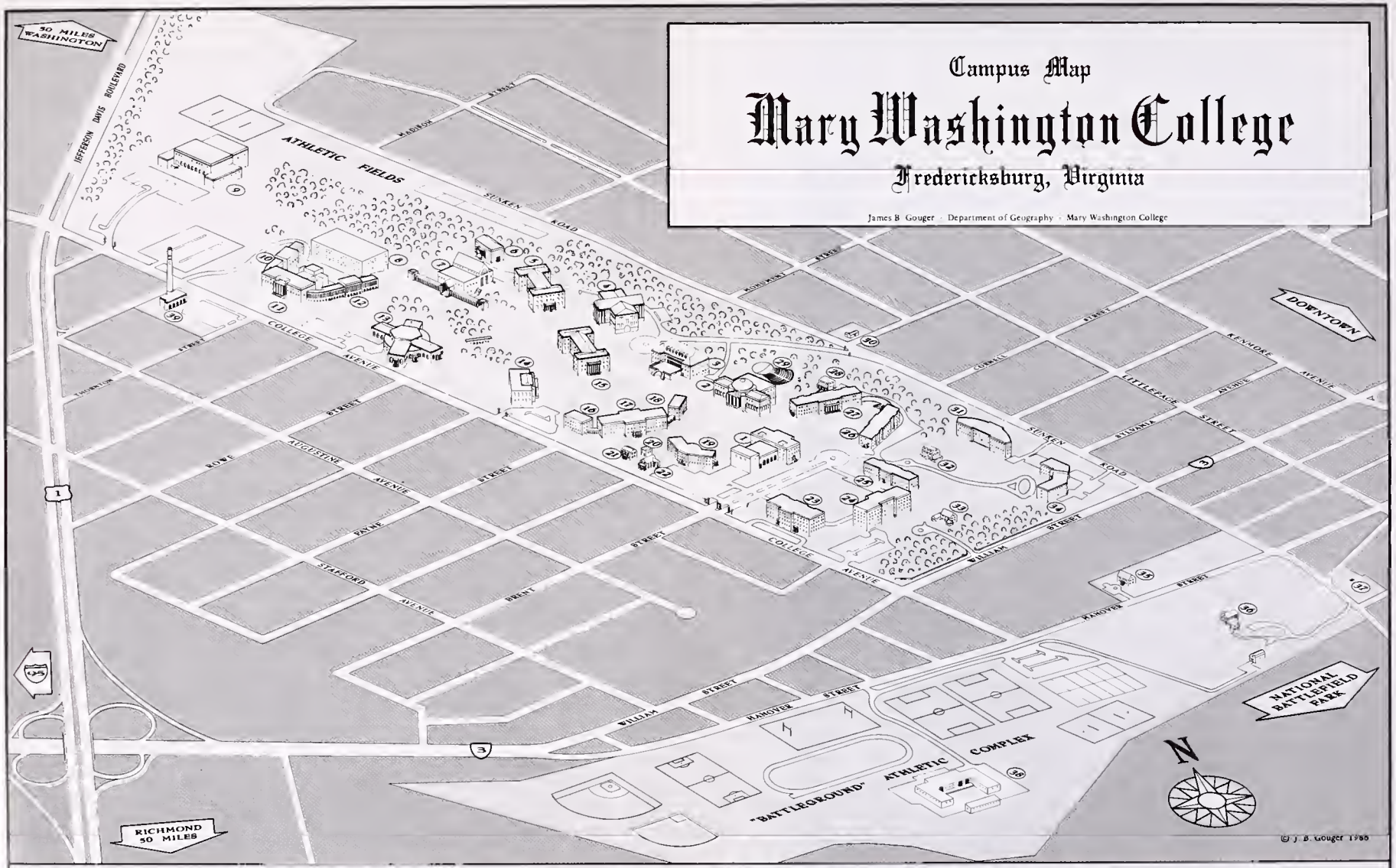


INDEX

Academic Policies (45)
Administration (159)
Admission (6)
Advanced Placement (10)
Advising, Academic (31)
Alternate Degree Program (43)
American Studies (112)
Anthropology (143)
Art, Dept. of (53)
Art History (53)
Art—Studio (55)
Attendance (46)
Audio-Visual Center (32)
Awards for Academic Achievement (146)
Awards for Faculty Achievement (150)
Bachelor of Arts, Science, degree (35, 43)
Bachelor of Liberal Studies degree (43)
Biological Sciences, Dept. of (58)
Biology (58)
Business Administration (64)
Business, Dept. of (64)
Calendar (45, 180)
Career Planning and Placement (31)
Chemistry (67)
Chemistry, Geology, and Physics, Dept. of (67)
Classics (74)
Classics, Philosophy and Religion, Dept. of (74)
Clubs (33)
Computer and Information Science (117)
Computing, Center for Academic (32)
Counseling Center (34)
Courses of Study (52)
Course Load (46)
Credit-by-Examination (15, 48)
Dance (82)
Dean's List (147)
Degree Requirements (36, 44, 152, 155)
Departmental Majors (43, 52)
Directory (158)
Dramatic Arts (84)
Dramatic Arts and Dance, Dept. of (81)

Economics, Dept. of (86)
Education, Dept. of (89)
Electives (35, 43)
Employment, Student (29)
English (92)
English, Linguistics, and Speech Dept. of (92)
Environmental Earth Sciences (62)
Faculty (150, 165)
Fees and Assistance (13, 157)
Financial Aid (21)
French (120)
Geography, Dept. of (98)
Geology (69)
German (122)
Grading (47)
Graduate Program and Fees (151)
Grants (27)
Greek (75)
Health and Physical Education Dept. of (102)
Health Center (34)
Health Education (102)
Health Sciences (145)
Historic Preservation, Dept. of (105)
History (108)
History and American Studies Dept. of (108)
Honor System (45)
Honors (147)
Intercollegiate Athletics (33, 104)
Interdisciplinary Majors (35, 43, 52, 62, 74, 85, 105, 112, 135)
Interdisciplinary Studies (113)
International Affairs (135)
Internships (145)
Italian (123)
Latin (76)
Library (30)
Library Science (113)
Linguistics (97)
Literatures in Translation (120)
Loans (28)
Major Programs (52)
Map of Campus (185)
Master of Arts in Liberal Studies degree (151)
Master of Business Administration degree (154)
Mathematics and Computer Science Dept. of (114)
Mathematics (114)
Medical Examinations (9, 12)
Mid-Semester Progress Reports (48)
Modern Foreign Languages, Dept. of (119)
Music, Dept. of (126)
Music Education (132)
Music History and Literature (127)
Music Performance (129)
Music, Theory of (128)
Non-Residential Fees (14)
Part-time Students (6, 12)
Pass/Fail Option (48)
Performing Arts (85)
Philosophy (77)
Physical Education (102)
Physics (72)
Political Science (133)
Political Science and International Affairs, Dept. of (132)
Predental Program (145)
Pre-Law Program (146)
Premedical Program (145)
Probation (49)
Psychology, Dept. of (136)
Quality Points (48)
Readmission (51)

Refund of fees (17)
Religion (78)
Repeating Courses (48)
Residence Halls (34, 185)
Residence Requirements (11, 36, 44, 152)
Residential Fees (13)
Russian (123)
Scholarship and Grants (16, 24)
Second Degree (43)
Senior Citizens (15, 44)
Sociology (140)
Sociology and Anthropology, Dept. of (139)
Spanish (124)
Special Majors (145)
Special Programs (145)
Speech (97)
Sports (33)
Student Handbook (33)
Study Abroad (15, 145)
Summer School (Session) (12)
Suspension (49)
Teacher Certification (89, 146)
Transfer Credit (11, 49, 152)
Undergraduate Program (35)
Withdrawal (17, 49)



1. George Washington Hall — *Administration*
2. Trinkle Hall — *Library*
3. Ann Carter Lee Hall — *Student Services, Health Center, Bookstore, Police*
4. Monroe Hall — *Academic*
5. Willard Hall — *Residence*
6. Mercer Hall — *Residence*
7. New Student Center — *(Under Construction)*
8. New Library — *(Under Construction)*
9. Goolrick Hall — *Gymnasium*
10. Pollard Hall — *Academic*
11. duPont Hall — *Academic*
12. Melchers Hall — *Academic*
13. Seacobeck Hall — *Dining Hall*
14. Chandler Hall — *Academic*
15. Virginia Hall — *Residence*
16. Custis Hall — *Residence*
17. Mary Ball Hall — *Residence*
18. Madison Hall — *Residence*
19. Westmoreland Hall — *Residence*
20. Tyler — *Residence*
21. Fairfax — *Residence*
22. Hamlet — *Residence*
23. Combs Hall — *Academic*
24. Jefferson Hall — *Residence*
25. Bushnell Hall — *Residence*
26. Randolph Hall — *Residence*
27. Mason Hall — *Residence*
28. Marye — *Residence*
29. Amphitheater
30. Cornell — *Residence*
31. Russell Hall — *Residence*
32. Brent — *Residence*
33. Framar — *Residence*
34. Marshall Hall — *Residence*
35. Trench Hill — *Development / Alumni Offices*
36. Brompton — *President's Home*
37. Civil War Monument
38. Physical Plant Building
39. Heating Plant

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